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THE

JOURNAL

OF

THE LINNEAN SOCIETY.

BOTANY.

VOL. XXXVI.

LONDON:
SOLD AT THE SOCIETY'S APARTMENTS, BURLINGTON HOUSE,
PICCADILLY, W.,
AND BY
LONGMANS, GREEN, AND CO.,
AND
WILLIAMS AND NORGATE.
1903–1905.

SHOUT
SHARE
IT

Dates of Publication of the several Numbers included in this Volume.

No. 249,	pp.	1– 72,	published	January 1, 1903.
,, 250,	,,	73–136,	,,	April 1, ,,
,, 251,	,,	137–216,	,,	June 30, ,,
,, 252,	,,	217–296,	,,	October 31, ,,
,, 253,	,,	297–376,	,,	March 31, 1904.
,, 254,	,,	377–456,	,,	July 25, ,,

Nos. 255–256, 457–686,
Index to Names and Synonyms, Vols. **23**, **26**, and **36**,
Titlepage, Contents, Historical Note, etc.
published December 20, 1905.

PRINTED BY TAYLOR AND FRANCIS,
RED LION COURT, FLEET STREET.

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Titlepage, Contents, Historical Note, etc.

HISTORICAL NOTE.

THE completion of an undertaking which has been on hand for some twenty years, has far exceeded the limits originally assigned to it, and must, I fear, have long ago exhausted the patience of the Linnean Society, invites, if it does not almost demand, a few words of explanation as to its history.

As long ago as 1878 I was invited to deliver before the Royal Geographical Society a lecture which was in substance an attempt to review the knowledge existing at the time of the Earth's flora. When I came to the vast territory occupied in the Old World by the Chinese Empire, I could only quote the statement made four years earlier by the well-known botanist, the late Dr. Hance :—

"While M. Maximowicz's excellent and very complete 'Index Floræ Pekinensis' provides a good catalogue of the flora of the Chinese metropolis and its vicinity, and Mr. Bentham's classical 'Flora Hongkongensis' has acquainted us with the principal constituents of that of the extreme South-east of the Empire, nothing whatever of a scientific character has yet, to my knowledge, been written on the vegetation of the districts intermediate to those two points, which are separated by 17° of latitude, or of the various ports of trade along the coast or on the Yangtse."

It seemed to me that a beginning might at any rate be made to remedy this conspicuous defect in our knowledge of the vegetation of the Old World, and that a list of Chinese plants which had actually been collected would throw some light on the character of the Chinese Flora and would afford a starting-point for fresh research.

I accordingly in December 1883 made the following appeal to the Government Grant Committee of the Royal Society:—

"To ask for appointment of a Committee to report on our present knowledge of the Flora of China. It is believed that the national herbaria contain a considerable accumulation of material, which it is desirable should be catalogued after the manner of the Botany of Godman and Salvin's 'Biologia Centrali-Americana.' Such a catalogue would embody descriptions of all undescribed species of which material is available, and references to the widely scattered published notices of Chinese plants would be intercalated in their proper place. The report would therefore give a complete view from all readily accessible sources of our present knowledge of the Chinese Flora. . . . Our present ignorance of the vegetation of China is an insuperable bar to any rational attempt at generalisation with regard to the distribution of the plants of the Palæarctic region."

The application was acceded to: a Committee was appointed consisting of Mr. J. Ball, Mr. Carruthers, Mr. Thiselton-Dyer, and Prof. Oliver, and a grant of £200 was placed at its disposal.

The first meeting of the Committee was held at the Royal Society on February 7, 1884. The following passage is extracted from the Minutes:—

"It was stated that Mr. F. B. Forbes, F.L.S., had as early as 1875, with the paid assistance of Mr. W. B. Hemsley and others, made considerable progress in cataloguing the Chinese plants preserved in the Herbaria of the Royal Botanic Gardens, Kew, and of the British Museum, and that he was actively engaged in arranging his material."

Mr. Forbes attended, by invitation, the next meeting of the Committee on February 14 following. He offered very liberally to cooperate with it, and it was agreed to employ Mr. Hemsley to carry on the work.

At subsequent meetings the form in which the Catalogue should be drawn up was settled, and in 1885 the Chairman, Mr. John Ball, addressed on its behalf the following letter to the President of the Linnean Society:—

10 Southwell Gardens, London, S.W.
13 May, 1885.

SIR,

A Committee consisting of Mr. Ball, Professor Oliver, Mr. Carruthers, and Mr. Thiselton-Dyer, was appointed last year by the Government Grant Committee of the Royal Society to draw up a Report on our present knowledge of the Flora of China.

The Committee has since been joined, at its invitation, by Mr. Forbes, F.L.S., who has most liberally offered his personal assistance, and placed at its disposal his valuable and extensive manuscript collections and notes *.

The Committee has further engaged the services of Mr. Hemsley, A.L.S., to cooperate in drawing up the Report, and he has prepared a specimen dealing with the Ranunculaceæ to its entire satisfaction.

The Committee now finds itself in a position to press on the work with considerable despatch, and feels confident that, by affording for the first time a comprehensive view of the vegetation of one of the most interesting of existing botanical regions, it will supply invaluable aid for further research, as well to the student of physiography, as to travellers, diplomatic agents and missionaries abroad.

The Committee is anxious that the printing should proceed *pari passu* with the preparation of the Report, and would deem it an advantage that it should be issued to the public under the auspices of the Linnean Society.

I, therefore, on behalf of the Committee, beg to offer the Report to the Council of the Linnean Society on the following conditions:—

1. The Committee to have placed at its disposal an entire volume of the botanical series of the Journal of the Society.
2. The Committee to pay the entire cost of setting the Report in type, and of correcting the press.
3. The Committee to be at liberty to print off at its own cost 150 copies to remain at its disposal.
4. The Linnean Society to bear the cost of press-work for copies issued to Fellows, and for stock for sale by the Society.
5. Plates illustrating species of exceptional interest may be included in the Report, at the discretion of the Committee, on the same terms as those above stated with regard to the letterpress †.

The Committee suggests that the Report may be issued in parts to the Fellows.

I have the honour to be, Sir,
Your obedient Servant,
(Signed) JOHN BALL.

The President of the Linnean Society.

---

* [Owing to unforeseen private engagements, he was unable to take any further active part in the preparation of the " Enumeration."]

† [The expense of the map and drawing of the first three plates in Volume **23** was defrayed by Mr. Forbes, afterwards the entire cost of the plates was borne by the Linnean Society.]

To these proposals the Council agreed, and Parts 1 and 2 of the Enumeration were issued in 1886. Copies of these and subsequent ones were freely distributed amongst English residents in China, with the result of inducing many to assist in the work of collecting specimens. Amongst the earlier was Dr. Henry, at the time an officer in the Chinese Imperial Maritime Customs. Down to the time of his leaving China in 1900, the collections made by this indefatigable botanist reached 15,700 numbers, each represented by numerous duplicates and amounting in all to some 150,000 sheets. Henry's collections revealed the existence of a flora of surprising and unexpected richness, and raised problems of geographical distribution of the highest interest.

The Committee had hoped that the Catalogue they contemplated might be contained in a single volume of the Society's Journal. But it speedily became clear that it would far exceed those limits. It was further evident that the whole undertaking would be more costly and laborious than was originally contemplated. In addition to three grants amounting in all to £700 obtained from the Government Grant Committee of the Royal Society, further aid amounting to £175 was therefore obtained from the British Association, and progress reports were presented to that body in 1887, 1888, and 1889. The total sum received and expended by the Committee on the undertaking up to 1891 amounted to £875.

In 1890 Mr. Hemsley was appointed to the post of Principal Assistant in the Herbarium of the Royal Botanic Gardens, Kew, and his official duties precluded his devoting himself any longer to the work. The completion therefore only became possible by the cooperation, under Mr. Hemsley's general supervision, of various botanists whose names stand at the heads of their several contributions. From this point onwards the cost of printing and publication has been exclusively borne by the Linnean Society.

During their lifetime (for both unhappily passed away during the progress of the work) the Committee met with the kindest sympathy and assistance from M. C. J. Maximowicz of the Académie Impériale of St. Petersburg, who had long been engaged on the elaboration of the collections made by Russian travellers in China, and from M. Franchet of the Muséum d'Histoire Naturelle at Paris, who was occupied in describing and publishing the extremely rich collections made by the French missionaries in Yunnan.

The following letter affords an interesting testimony to the importance Maximowicz attached to the Enumeration :—

Petersburg Botanic Garden,
15 September, 1885.

DEAR SIR,

You have caused me a most agreeable surprise by the gift of the first fasciculus of Messrs. Forbes and Hemsley's most important enumeration of the flora of China. I need not tell you that it will be a constant and most useful source of reference to me and that I am extremely grateful for this laborious and well-executed undertaking which will save me an immense deal of work, when occupied with my own work on the neighbour-floras. The interest I take in it is still more lively through the important set of Dr. Henry's Hupeh plants, recently received from the Kew Herbarium, in which I find quite a number of the novelties. It appears, however, that the first orders were already printed when Dr. Henry's collection reached Kew.

What a pity it is that our esteemed Dr. Hance did not live to see the commencement of a work which would have elicited his most lively interest and approval.

Believe me, etc.,
(Signed) C. J. MAXIMOWICZ.

The late Baron Richthofen, the greatest authority on the physical geography of China, was no less appreciative of the value of the work :—

Berlin W., Kurfürstenstrasse, 117,
January 20, 1889.

My dear Mr. THISELTON-DYER,

It has been a very pleasant surprise to me, this morning, to receive from you the "Index Floræ Sinensis." I thank you sincerely for this kind token of remembrance.

It is of great value to have now a Flora of China embodying all the species known from that country. You have evidently succeeded at Kew to get up a very complete collection. At the same time, in looking over the localities mentioned in the book, it strikes me that large portions of China are still unexplored botanically. There remains a splendid field for a good collector in the Tsinking mountains, the province of Sz'-chwan, and chiefly its elevated regions west of Chêng-tu-fu. Work in those parts will be greatly facilitated by the solid foundation laid through the work of Forbes and Hemsley.

Yours very truly,
(Signed) F. RICHTHOFEN.

From the circumstances of the case the enumeration of the species, of which we now possess material or know of the existence in other herbaria, is admittedly unequal. The number of those for instance contained in Part 1 would probably from present knowledge have to be increased by a third. This has been as far as possible remedied by the list drawn up by Miss M. Smith of the new species published during the progress of the work and of those already described whose area has since been found to extend to China.

The usefulness of the whole work has been enormously enhanced by the complete index of all names cited including synonyms. It contains some 17,000 entries, and is due to the indefatigable industry of Mr. Daydon Jackson, the Society's General Secretary.

No useful purpose would be served by an attempt to specify all those who have supplied the material which has been used in preparing the Enumeration. Their names are given throughout under the species they contributed. Full particulars for the most part will be found about them in Bretschneider's exhaustive "History of European Botanical Discoveries in China," published in 1898.

A few exceptions must, however, be made. Dr. Hance who, to use the words of Bretschneider, "has connected his name for all time with the Flora of China," died June 22, 1886, as already noticed, after the appearance of the first part. His Herbarium of Asiatic plants containing upwards of 22,000 species was acquired by the British Museum.

Dr. Henry's important collections were, as also already noticed, not available for the first part and only to a small extent for the second. From that point they were continuously drawn upon as they successively reached this country.

Dr. Henry also obtained for the Kew Herbarium Dr. Ernst Faber's important collection from Mt. Omei as well as Morse's from Kwangsi and Ducloux's from Yunnan. Faber's own herbarium was afterwards destroyed by fire. His plants are taken up in the Enumeration from the fifth part onwards.

The extraordinary richness of the flora of Western and Central China as revealed by Henry's collections, induced Messrs. Veitch to send out Mr. E. H. Wilson to make further botanical explorations. He made two journeys—the first in 1899, when he arrived at Szemao to see Henry, and the second in 1903. Messrs. James

Veitch and Sons, with a liberality worthy of their distinguished firm, have presented to the Kew Herbarium a complete set of Wilson's plants. Some are taken up in the later parts of the Enumeration.

In 1875 Mr. Hemsley had drawn up a rough list of the Chinese plants in the Kew Herbarium for Mr. Forbes. It contained 3064 species, including ferns. The present Enumeration contains 8271, of which 4230 are endemic or not known to occur outside the Chinese Empire. The most moderate estimate cannot put the whole flora as containing less than 12,000 species.

It only remains in bringing this note to a conclusion to add a few particulars as to the bibliography, which have been supplied by Mr. Hemsley.

With regard to the literature cited, it may be useful to explain two or three points which might not otherwise be quite clear. Throughout, the "Mélanges Biologiques" are cited for Maximowicz's species, though in most instances they were originally published in the "Bulletin de l'Académie Impériale des Sciences de St. Pétersbourg." The references to Franchet's "Plantæ Davidianæ" are to the repaged issue of the "Première Partie," and not to the original pages in the "Nouvelles Archives du Muséum." On the other hand, the pages are given of the "Annales Musei Botanici Lugduno-Batavi" for Miquel's "Prolusio Floræ Japonicæ," of which there is a repaged edition. Maximowicz's "Ad Floræ Asiæ Orientalis cognitionem meliorem Fragmenta" is sometimes cited under this title, and sometimes the references are direct to the "Bulletin de la Société Impériale des Naturalistes de Moscou," but the pagination is the same in both. Siebold and Zuccarini's "Floræ Japonicæ Familiæ Naturales . . . ." originally appeared in the Münchener "Abhandlungen," vol. iv. 1844–6, and the references are sometimes to the pages of the re-issue and sometimes to the consecutive numbers of the plants enumerated therein. Bunge's "Enumeratio Plantarum quas in China Boreali collegit" was published in the "Mémoires présentées à l'Académie de St. Pétersbourg par divers Savans," ii. 1835, but the references in the following "Index" are to a repaged copy. Lastly, the original edition of Loureiro's "Flora Cochinchinensis" is the one cited where not otherwise stated.

W. T. THISELTON-DYER.

Kew,
December, 1905.

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JANUARY 1. Price 5s.

THE JOURNAL

OF

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See Notice on last page of Wrapper.

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ENUMERATION

OF

ALL THE PLANTS KNOWN

FROM

CHINA PROPER, FORMOSA, HAINAN, THE COREA,
THE LUCHU ARCHIPELAGO,

AND

THE ISLAND OF HONGKONG;

TOGETHER WITH THEIR

DISTRIBUTION AND SYNONYMY.

(CONTINUED FROM VOL. XXVI.)

133. HYDROCHARIDACEÆ.

(By C. H. Wright, A.L.S.)

1. **Hydrilla verticillata,** *Royle, Ill. Bot. Himal.* t. 376 (1839); *Presl, Bemerk.* p. 112 (1844); *Caspary, in Pringsh. Jahrb.* i. (1858) p. 494; *Maxim. Fl. As. Or. Fragm.* p. 59; *Hook. f. Fl. Brit. Ind.* v. p. 659.

Hydrilla verticillata, var. Roxburghii, *Casp. in Pringsh. Jahrb.* i. (1858) p. 494.

Hydrilla verticillata, var. crispa, *Casp. l. c.*

Hydrilla dentata, *Casp. in Bot. Zeit.* xii. (1854) p. 56.

Hydrilla japonica, *Miq. in Ann. Mus. Bot. Lugd.-Bat.* ii. p. 271.

Serpicula verticillata, *Roxb. Pl. Corom.* ii. t. 164.

Chihli: Peking Plain (*Bretschneider* ex *Maximowicz*; *Moellendorf* in hb. *Hance*, 20353 !); Kiangsu: Kiangnan (*Staunton* !); Hupeh: Ichang (*A. Henry*, 4368 !); Kwangtung (*Ford* !), Lienchau River (*Graves* !). Mus. Brit.; Herb. Kew.

Central Europe, Tropical Asia and Australia, Mascarene Islands.

1. **Lagarosiphon Roxburghii**, *Benth. in Benth. & Hook. f. Gen. Pl.* iii. p. 451 ; *Hook. f. Fl. Brit. Ind.* v. p. 659.

Vallisneria alternifolia, *Roxb. Hort. Beng.* p. 71 ; *Fl. Ind.* iii. p. 750; *Wight, in Hook. Bot. Misc.* ii. (1831) p. 344, t. 11.

Nechamandra Roxburghii, *Planch. in Ann. Sc. Nat.* 3^{me} sér. xi. (1849) p. 78, excl. syn. Roxb.; *Hance, in Journ. Linn. Soc., Bot.* xiii. (1872) p. 125.

Nechamandra alternifolia, *Thw. Enum. Pl. Zeyl.* p. 332.

KWANGTUNG : Whampoa (*Hance*, 1517, 5411 !). Mus. Brit.; Herb. Kew.

Tropical Asia.

1. **Vallisneria spiralis**, *Linn. Sp. Pl.* ed. 1, p. 1015 ; *Hook. Bot. Misc.* iii. (1833) p. 87 ; *Suppl.* tt. 23-24 ; *Maxim. Fl. As. Or. Fragm.* p. 59 ; *Hook. f. Fl. Brit. Ind.* v. p. 660.

CHIHLI : Peking, Wanshoushan (*Bretschneider*, 718 !); KIANGSU : Kiangnan (*Staunton* !). Mus. Brit. ; Herb. Kew.

The warmer regions of both hemispheres.

1. **Blyxa Roxburghii**, *Rich. in Mém. Inst. Fr.* (1811) p. 77, t. 5 ; *Benth. Fl. Hongk.* p. 347 ; *Fl. Austral.* vi. 258.

Blyxa octandra, *Planch.* ex *Thw. Enum. Pl. Zeyl.* p. 332.

Diplosiphon oryzetorum, *Decne. in Jacquem. Voy.* iv. p. 166, t. 167.

Vallisneria octandra, *Roxb. Pl. Corom.* t. 165.

KWANGTUNG : Swatow (*Sampson* !) ; HONGKONG (*Wilford*, 285 ! *Wright*, 541 ! *Hance*, 1517 !). Mus. Brit. ; Herb. Kew.

Tropical Asia and Australia.

1. **Hydrocharis Morsus-ranæ**, *Linn. Sp. Pl.* ed. 1, p. 1036 ; *Lam. Encycl.* t. 820 ; *Schnizl. Icon.* i. 59 ; *Hook. f. Fl. Brit. Ind.* v. p. 662.

Hydrocharis asiaticus, *Miq. Fl. Ind. Bat.* iii. p. 239 ; *Ann. Mus. Bot. Lugd.-Bat.* iii. p. 194 ; *Franch. et Savat. Enum. Pl. Jap.* ii. 19 ; *Maxim. Fl. As. Or. Fragm.* p. 59 ; *Debeaux, Fl. Shangh.* p. 60.

CHIHLI : Wanshonshan, Peking (*Bretschneider* in Herb. *Hance*, 18137 !); KIANGSU : Shanghai (*Carles*, 384 !); CHEKIANG : Ningpo Creek (*Faber*, 59 !) ; HUPEH : Ichang (*A. Henry*, 127 ! 2251 !). Mus. Brit. ; Herb. Kew.

Europe, North Asia, North India, Japan, Australia, "cultivated in Java."

1. **Ottelia alismoides,** *Pers. Syn. Pl.* i. p. 400; *Miq. in Ann. Mus. Bot. Lugd.-Bat.* ii. p. 272 & iii. p. 204; *Benth. Fl. Austral.* vi. p. 257; *Hook. f. Fl. Brit. Ind.* v. p. 662.

Ottelia japonica, *Miq. in Verh. Akad. Wetensch.* II. ii. (1868) p. 89, & *Ann. Mus. Bot. Lugd.-Bat.* ii. p. 271.

Ottelia indica, *Planch. in Dalz. & Gibs. Bomb. Fl.* p. 278.

Stratiotes alismoides, *Linn. Sp. Pl.* ed. 1, p. 535.

Damasonium indicum, *Willd. Sp. Pl.* ii. p. 276; *Roxb. Fl. Ind.* ii. p. 216; *Pl. Corom.* ii. p. 45, t. 185.

KIANGSU: Kianang (*Staunton!*); KIANGSI: Kiukiang (*Shearer!*); SZECHUEN: Hokiang (*Faber*, 966!); HUPEH: Ichang (*A. Henry*, 165!); KWANGTUNG (*Ford*, 241!), Lantao Is. (*Ford*, 61!); Hainan (*A. Henry*, 8291! 8662!); Whampoa (*Hance*, 6056!); Fukwing (*Krone*, 1539!). Mus. Brit.; Herb. Kew.

Tropical Asia, North Australia.

1. **Enhalus Kœnigii,** *Rich. in Mém. Inst. Par.* ii. (1797) p. 78; *Miq. Fl. Ind. Bat.* iii. p. 237; *Hook. f. Fl. Brit. Ind.* v. p. 663.

Enhalus acoroides, *Rich. ex Catin, Anat. Pl. Aquat.* p. 15, t. 6; *Tokutaro Ito, in Ann. Bot.* xiii. (1899) p. 465.

Enhalus, *Griff. Notul.* iii. p. 175; *Ic.* tt. 249-250.

Stratiotes acoroides, *Linn. f. Suppl.* p. 268.

LUCHU ARCHIPELAGO: between the islands of Irumuti and Uchibanari (ex *Tokutaro Ito*).

Malaya, Ceylon, Arabia, and North Australia.

1. **Thalassia Hemprichii,** *Aschers. in Neumayer, Anleit. Wiss.* p. 361; *Durand & Schinz, Consp. Fl. Afr.* v. p. 5.

Schizotheca Hemprichii, *Ehrenb. in Abh. Akad. Berl.* i. (1832) p. 429; *Solms-Laubach, in Schweinf. Beitr. Fl. Aethiop.* p. 194.

LUCHU ARCHIPELAGO (*Wright!*). Herb. Kew.

Red Sea, Indian and Pacific Oceans.

1. **Halophila ovata,** *Gaud. in Freyc. Voyage, Bot.* p. 430, t. 40. f. 1; *Hance, in Journ. Linn. Soc., Bot.* xiii. (1872) p. 129; *Tokutaro Ito, in Ann. Bot.* xiii. (1899) p. 465.

Halophila ovalis, *Hook. f. Fl. Tasm.* ii. p. 45.

Caulinia ovalis, *R. Br. Prodr.* p. 339.

HONGKONG: Kowlung Bay (*Harland*, 282!); PRATAS REEF (*Wilford*, 453!); LUCHU ARCHIPELAGO (*Wright*, 327!). Mus. Brit.; Herb. Kew.

Tropical Asia, Australia.

134. BURMANNIACEÆ.

(By C. H. WRIGHT, A.L.S.)

1. **Burmannia cœlestis,** *D. Don, Prodr. Fl. Nepal.* p. 44; *Royle, Ill. Bot. Himal.* p. 373, t. 91. f. 1; *Hance, in Journ. Bot.* xvi. (1878) p. 111; *Hook. f. Fl. Brit. Ind.* v. p. 665.

Burmannia azurea, *Griff. Notul.* iii. p. 236, & *Ic.* t. 272. fig. 1; *Becc. Malesia,* i. p. 242, t. 15. figs. 1–3.

Cryptonema malaccensis, *Turcz. in Bull. Soc. Nat. Mosc.* xxi. (1848) i. p. 591; *Kränzl. in Engl. Bot. Jahrb.* vi. (1885) p. 55.

Nephrocœlium malaccense, *Turcz. in Bull. Soc. Nat. Mosc.* (1853) i. p. 287.

Nephrocodum malaccense, *C. Muell. in Walp. Ann.* vi. p. 40; *Becc. Malesia,* i. p. 242.

KIANGSI (*Staunton!*); KWANGTUNG: Foot of the White Cloud Hill, near Canton (*Sampson,* 677! *Hance,* 7933! *Lamont,* 1086!), Macao (*Nelson!*); LUCHU ARCHIPELAGO: Amami Osima (*Döderlein* ex *Kränzlin*). Mus. Brit.; Herb. Kew.

India and Malaya.

2. **Burmannia Dalzieli,** *Rendle, in Journ. Bot.* xl. (1902) p. 311, pl. 441 B.

KWANGTUNG: near Canton (*Dalziel!*). Mus. Brit.

3. **Burmannia disticha,** *Linn. Sp. Pl.* ed. 1, p. 287; *Roxb. Pl. Corom.* iii. t. 242; *Benth. Fl. Austral.* vi. p. 397; *Hook. f. Fl. Brit. Ind.* v. p. 664.

Burmannia distachya, *R. Br. Prodr.* p. 265.

Burmannia spica gemina Linnæi, *Burm. Thes. Zeyl.* p. 50, t. 20. fig. 1.

KWANGTUNG: Shing Hing Pass, West River (*Ford!*); HONGKONG (*Champion!*). Herb. Kew.

India, Australia.

4. **Burmannia nepalensis,** *Hook. f. Fl. Brit. Ind.* v. p. 666; *Hemsl. in Ann. Bot.* v. (1891) p. 407; *Tokutaro Ito, Burmanniaceæ of Japan,* p. 14, t. 2. figs. 3–4.

Cyanotis nepalensis, *Miers, in Wall. Cat.* n. 9006.

Gonyanthes nepalensis, *Miers, in Trans. Linn. Soc.* xviii. (1841) p. 537, t. 38. fig. 1.

KWANGTUNG: Lofaushan (*Ford,* 68!). Herb. Kew.

North India, Cochin China.

5. **Burmannia Wallichii**, *Hook. f. Fl. Brit. Ind.* v. p. 666.

Gonyanthes Wallichii, *Miers, in Trans. Linn. Soc.* xviii. (1841) p. 537, t. 38. fig. 2 ; *Benth. Fl. Hongk.* p. 364.

Burmannia sp., *Griff. Ic.* t. 272. fig. 2.

HONGKONG : Mount Gough (*Wilford*, 281 !). Herb. Kew.

India.

135. ORCHIDACEÆ : EPIDENDREÆ.

(By R. A. ROLFE, A.L.S.)

1. **Microstylis congesta**, *Reichb. f. in Walp. Ann.* vi. p. 206 ; *Hance, in Journ. Linn. Soc., Bot* xiii. (1871) p. 127 ; *Ridl. in Journ. Linn. Soc., Bot.* xxiv. (1888) p. 334 ; *Hook. f. Fl. Brit. Ind.* v. p. 689.

Dienia congesta, *Lindl. Gen. & Sp. Orch.* p. 22 ; *Benth. Fl. Hongk.* p. 352.

FORMOSA : Bankinsing Mountains and South Cape (*A. Henry*, 835 ! 1342 !) ; HONGKONG (*Hance* ! *Harland*, 1057 ! *Lamont* !) Mus. Brit. ; Herb. Kew.

North India, from Nepal eastward, Malaya, and Queensland.

2. **Microstylis cylindrostachya**, *Reichb. f. in Walp. Ann.* vi. p. 207 ; *Ridl. in Journ. Linn. Soc., Bot.* xxiv. (1888) p. 333 ; *Hook. f. Fl. Brit. Ind.* v. p. 689.

Dienia cylindrostachya, *Lindl. Gen. & Sp. Orch.* p. 22.

SZECHUEN : Tatsienlou (*Soulié*, 633 !).

Northern and Central India

3. **Microstylis monophyllos** *Lindl. Gen. & Sp. Orch.* p. 19 ; *Ridl. in Journ. Linn. Soc., Bot.* xxiv. (1888) p. 318.

Malaxis monophyllos, *Sw. in Vet.-Akad. Nya Handl. Stockh.* xxi. (1800) p. 234 ; *Franch. Pl. David.* i. p. 294.

CHIHLI : Pohuashan (*David*) ; HUPEH : Fang (*A. Henry*, 6869, 6875 !) ; SZECHUEN : Mount Omei, at 9000 ft. (*Faber*, 958 !). Herb. Kew.

Widely diffused through the temperate regions of the northern hemisphere.

1. **Oberonia iridifolia**, *Lindl. (?) Gen. & Sp. Orch.* p. 15 ; *Hook. f. Fl. Brit. Ind.* v. p. 675.

Malaxis iridifolia, *Reichb. f. in Walp. Ann.* vi. p. 208.

HAINAN (*Ford*, 575 !). Herb. Kew.

India.

The specimens are passing into the fruiting stage, hence there remains a slight uncertainty as to their identity with the Indian plant. The habit, however, is very similar, and the lip distinctly toothed.

2. **Oberonia yunnanensis**, *Rolfe*, n. sp.

Caules brevi, 5–6-phylli. *Folia* lanceolato-linearia, paululo falcata, acuta, ¾–1¼ poll. longa, 1–1¾ lin. lata. *Scapi* graciles, 4–6 poll. longi. Flores numerosi, minuti. *Bracteæ* subulato-filiformes, ¾ lin. longæ. *Pedicelli* ¾–1 lin. longi. *Sepala* ovata, subobtusa, concava, ⅓ lin. longa. *Petala* oblonga, obtusa, ⅓ lin. longa. *Labellum* ¾ lin. longum, ad medium in lobos oblongos subobtusos paullo divergentes fissum, basi latum; lobi integri. *Columna* brevissima.

Yunnan: Manme mountains, south of Red River, at 7000 ft. (*A. Henry*, 9152 !). Flowers yellow. Herb. Kew.

Allied to *O. pyrulifera*, Lindl., a native of Khasia and Munnipore, differing in its longer stems, narrower leaves, and the divergent lobes of the lip.

1. **Liparis chloroxantha**, *Hance, in Journ. Bot.* xxi. (1883) p. 231; *Ridl. in Journ. Linn. Soc., Bot.* xxii. (1886) p. 284.

Hongkong (*Ford*!). Mus. Brit.; Herb. Kew.

2. **Liparis Henryi**, *Rolfe, in Kew Bulletin* (1896), p. 193.

Formosa: South Cape (*A. Henry*, 2074 !). Herb. Kew.

Allied to *Liparis acuminata*, Hook. f., from the Khasia Hills. The flowers are considerably smaller than in *L. macrantha*, Rolfe, and the colour purple, with the front and margin of the lip whitish.

3. **Liparis latilabris**, *Rolfe*, n. sp.

Caules diphylli. *Folia* subcoriacea, lanceolata, acuta, basi attenuata, 10–15 poll. longa, 7–12 lin. lata. *Scapi* graciles, 9–15 poll. longi; racemi 5–6 poll. longi, multiflori. *Bracteæ* anguste lineari-lanceolatæ, acuminatæ, 2½–3 lin. longæ. *Pedicelli* 4–5 lin. longi. *Sepala* lineari-lanceolata, acuta, 3–3½ lin. longa. *Petala* anguste linearia, 3–3½ lin. longa. *Labellum* reniformi-orbiculare, crenulatum, 4–5 lin. latum, basi bituberculatum. *Columna* 1–1¼ lin. longa.

Yunnan: Mengtze, rocks in deep shade at 5500 ft. (*Hancock*, 255 !). Herb. Kew.

A very distinct species of the section *Coriifoliæ*, allied to *L. plantaginea*, Lindl., but with more numerous flowers of about half the size.

4. **Liparis longipes**, *Lindl. in Wall. Pl. Asiat. Rar.* i. p. 31, t. 35; *Lindl. Gen. & Sp. Orch.* p. 30; *Benth. Fl. Hongk.* p. 352; *Ridl. in Journ. Linn. Soc., Bot.* xxii. (1886) p. 293 (excl. syn. *L. elegans*); *Hook. f. Fl. Brit. Ind.* v. p. 703.

Sturmia longipes, *Reichb. f. in Bonplandia*, iii. (1855) p. 250.

FORMOSA: Bankinsing Mountains (*A. Henry*, 1592!), South Cape (*A. Henry*, 1979!); KWANGTUNG: Lofaushan (*Faber*!); HONGKONG (*Champion*, 335! 523! *Harland*, 812! *Bowring*! *Lamont*, 749!). Mus. Brit.; Herb. Kew.

India, Malaya, Fiji, and Samoa.

5. **Liparis macrantha**, *Rolfe in Ann. Bot.* ix. (1895) p. 156.

FORMOSA: Tamsui (*A. Henry*, 1695!). Herb. Kew.

6. **Liparis nervosa**, *Lindl. Gen. & Sp. Orch.* p. 26; *Benth. Fl. Hongk.* p. 352; *Franch. et Savat. Enum. Pl. Japon.* ii. p. 21; *Ridl. in Journ. Linn. Soc.* xxii p. 262.

Ophrys nervosa, *Thunb. Fl. Japon.* p. 27.

Epidendrum nervosum, *Thunb. Ic. Pl. Japon.* i. t. 10.

Malaxis nervosa, *Sw. in Vet.-Akad. Nya Handl. Stockh.* xxi. (1800) p. 235.

Sturmia nervosa, *Reichb. f. in Bonplandia*, iii. (1855) p. 250.

Liparis formosana, *Reichb. f. in Gard. Chron.* (1880) i. p. 394.

Liparis bituberculata, *var.* ? formosana, *Ridl. in Journ. Linn. Soc., Bot.* xxii. (1886) p. 263.

FORMOSA: Tamsui (*Oldham*, 555!), South Cape (*A. Henry*, 646!); HONGKONG (*Hance*, 1193!); LUCHU ARCHIPELAGO (*Wright*, 342!). Mus. Brit.; Herb. Kew.

Japan.

There remains a slight doubt about *Liparis formosana*, Reichb. f., which was based on a cultivated plant introduced from Formosa by Maries. The author compares it with *L. bituberculata*, Lindl., but describes the lip as acute, which certainly does not apply to Oldham's specimen, which otherwise seems identical. The only Japanese specimen I have seen is marked "cultivated."

7. **Liparis odorata**, *Lindl. Gen. & Sp. Orch.* p. 26; *Reichb. f. in Walp. Ann.* vi. p. 217; *Benth. Fl. Hongk.* p. 352.

Malaxis odorata, *Willd. Sp. Pl.* iv. p. 91.

Malaxis lancifolia, *Sm. in Rees, Cyclop.* xxii. n. 7.

Empusa paradoxa, *Lindl. Bot. Reg.* sub t. 825; *Gen. & Sp. Orch.* p. 17.

Liparis paradoxa, *Reichb. f. in Walp. Ann.* vi. p. 218; *Ridl. in Journ. Linn. Soc., Bot.* xxii. (1886) p. 26 ; *Hook. f. Fl. Brit. Ind.* v. p. 697.

CHEKIANG (*Fortune*, 39!): Ningpo (*Faber*, 300!); FORMOSA:

Bankinsing Mountains (*A. Henry*, 896!); SZECHUEN: Mount Omei (*Faber*, 952! 954!); YUNNAN: Mengtze, mountains at 6000–7000 ft. (*Hancock*, 217!); 5000–5500 ft. (*A. Henry*, 11105!); HONGKONG (*Champion*, 266!). Mus. Brit.; Herb. Kew.

India, Malaya, and Japan.

The specific name *odorata* is much older than *paradoxa*, under which the species is generally known. Ridley says "*L. odorata*, Benth., Flora Hongkong. p. 352, sine dubio *L. nervosa* est," but in this I cannot agree.

8. **Liparis pauciflora**, *Rolfe, in Kew Bulletin* (1896), p. 193.

SZECHUEN: S. Wushan (*A. Henry*, 5675, 5675 *a*!). Herb. Kew.

Allied to the Indian *L. rostrata*, Reichb. f., which also has an ecallose lip and short bracts, though the Indian species has larger and more numerous flowers.

9. **Liparis plicata**, *Franch. et Savat. Enum. Pl. Japon.* ii. pp. 22, 509; *Somoku Zusetsu*, xviii. p. 21; *Ridl. in Journ. Linn. Soc., Bot.* xxii. (1886) p. 285.

FORMOSA: Bankinsing Mountains (*A. Henry*, 138! 1627!); HONGKONG (*Champion*, 521!). Herb. Kew.

Japan.

Ridley identifies the Hongkong plant (which he attributes to "Fortune?") with the Japanese one.

10. **Liparis yunnanensis**, *Rolfe*, n. sp.

Caules diphylli. *Folia* subcoriacea, elongato-lanceolata, acuta, basi attenuata, 10–15 poll. longa, 10–16 lin. lata. *Scapi* graciles, 1¼ poll. longi; racemi 6 poll. longi, multiflori. *Bracteæ* lineares, acuminatæ, 3–8 lin. longæ. *Pedicelli* 5–8 lin. longi. *Sepala* lineari-lanceolata, acuta, 5–6 lin. longa. *Petala* anguste linearia, 5–6 lin. longa. *Labellum* obovato-orbiculare, minutissime crenulatum, 5 lin. latum, basi bituberculatum. *Columna* incurva, 2½–3 lin. longa.

YUNNAN: Mengtze, mountains at 5000 ft., among rocks (*A. Henry*, 10485!). Flowers yellow. Herb. Kew.

This is allied to *L. plantaginea*, Lindl., of the section *Coriifoliæ*, but has longer leaves, much narrower bracts, and narrower sepals; the unopened buds are also only half as stout. From *L. latilabris*, Rolfe, it differs in having fewer flowers, of twice the size.

1. **Corallorhiza innata**, *R. Br. in Ait. Hort. Kew.* ed. 2, v. p. 209; *Maxim. Ind. Fl. Pekin. in Prim. Fl. Amur.* p. 477.

Ophrys corallorhiza, *Linn. Sp. Pl.* ed. 1, p. 945.

Cymbidium Corallorhiza, *Sw. in Vet.-Akad. Handl. Nya Handl. Stockh.* xxi. (1800) p. 238.

CHILHI: Peking (ex *Maximowicz*).

Europe, N. Asia, and N. America.

Maximowicz enumerates this with a query in the above work, but without giving any clue to his authority. He, however, confirms the locality in a letter to Mr. Forbes dated Dec. 16, 1894.

1. **Oreorchis foliosa**, *Lindl. in Journ. Linn. Soc.* iii. (1859) p. 27; *Hook. f. Fl. Brit. Ind.* v. p. 709.

"Corallorhiza with leaves," *Lindl. ex Royle, Ill. Bot. Himal.* p. 362.

SZECHUEN: without locality (*Pratt*, 19, 55!). Herb. Kew.

Temperate Himalaya.

1. **Dendrobium aduncum**, *Wall. in Bot. Reg.* xxviii., *Misc.* p. 58; xxxii. t. 15; *Bot. Mag.* t. 6784; *Hook. f. Fl. Brit. Ind.* v. p. 730.

KWANGTUNG: Lofaushan (*Ford*, 91!). Herb. Kew.

North India, from Bhotan to Assam.

2. **Dendrobium aggregatum**, *Roxb. Fl. Ind.* iii. p. 477; *Lindl. Bot. Reg.* t. 1695; *Bot. Mag.* t. 3643; *Hook. f. Fl. Brit. Ind.* v. p. 749.

KWANGTUNG: Lofaushan, at 800 ft. (*Ford*!). Herb. Kew.

North-eastern India and Malayan Peninsula.

3. **Dendrobium atropurpureum**, *Miq. Fl. Ind. Batav.* iii. p. 644; *Hook. f. Fl. Brit. Ind.* v. p. 724.

Oxystophyllum atropurpureum, *Blume, Rumphia*, iv. p. 41, t. 193, fig. 4, t. 198, fig. C.

Oxystophyllum carnosum, *Blume, Bijdr.* p. 336, fig. 38; *Lindl. Gen. & Sp. Orch.* p. 72.

Aporum concinnum, *Lindl. in Wall. Cat.* n. 2019.

HAINAN: Taihui (*Ford*, 570!). Flowers dark claret. Herb. Kew.

Burma, Malaya Peninsula and Archipelago.

4. **Dendrobium aurantiacum** *Reichb. f. in Gard. Chron.* (1887) ii. p. 98; *Hook. f. Fl. Brit. Ind.* v. p. 751.

Dendrobium chryseum, *Rolfe, in Gard. Chron.* (1888) i. p. 233; *Hook. f. Fl. Brit. Ind.* v. p. 748.

SZECHUEN : without locality (*Pratt*, 26 !). Herb. Kew.
Eastern Himalaya.

When describing *Dendrobium chryseum* I inadvertently overlooked Reichenbach's *D. aurantiacum*.

[*Dendrobium auriferum*, Lindl., belongs to *Sarcochilus*.]

5. **Dendrobium (§ Formosæ) bellatulum**, *Rolfe*, n. sp.

Planta circa 3 poll. alta, insignis, nigro-hirsuta. *Pseudobulbi* fusiformi-oblongi, 3–4-phylli. *Folia* oblonga v. elliptico-oblonga, inæqualiter et brevissime biloba, 1–1¾ poll. longa, 5–9 lin. lata. *Flores* 1–3, subterminales, pulchelli, albidi. *Bracteæ* elliptico-oblongæ, acutæ, 4–5 lin. longæ. *Pedicelli* 9–12 lin. longi. *Sepalum* posticum elliptico-oblongum, subobtusum, 9–10 lin. longum; lateralia triangularia, subacuta, 10–12 lin. longa. *Petala* elliptico-obovata, obtusa v. minute apiculata, 10–12 lin. longa. *Labellum* 13–15 lin. longum, pandurato-trilobum; lobi laterales rotundati; lobum intermedium latissime obcordato-bilobum, 5–6 lin. latum; discus medio obtuse 5-carinatus, carinis tuberculoso-verrucosis. *Columna* clavato-oblonga, 3 lin. longa; alæ oblongæ, obtusæ. *Mentum* late saccatum, subobtusum, 4–5 lin. longum.

YUNNAN : Mengtze, S.E. mountain-forests, at 5000 ft., on trees (*A. Henry*, 11109 !). Flowers whitish. Herb. Kew.

A beautiful little plant, much like a miniature edition of *D. formosum*, Roxb.

6. **Dendrobium Ceraia**, *Lindl. Gen. & Sp. Orch.* p. 89.

Ceraia simplicissima, *Lour. Fl. Cochinch.* p. 518.
CHINA : without locality (ex *Loureiro*).
Cochin China.

7. **Dendrobium chrysanthum**, *Wall. in Lindl. Gen. & Sp. Orch.* p. 80; *Bot. Reg.* t. 1299; *Hook. f. Fl. Brit. Ind.* v. p. 747.

YUNNAN : on hot sandy rocks at Mengtze; very rare (*Hancock*, 119 !); grassy banks, rocks, &c., at 5000 ft. (*A. Henry*, 11094 !). Herb. Kew.

Tropical Himalaya and Khasia.

8. **Dendrobium clavatum**, *Wall. Cat.* n. 2004; *Lindl. in Paxt. Fl. Gard.* ii. p. 104; *Bot. Mag.* t. 6993; *Hook. f. Fl. Brit. Ind.* v. p. 746.

YUNNAN : on rocks in sandy gulches facing south, at Mengtze

(*Hancock*, 118!); mountain gulches, 6000–7000 ft. (*Hancock*, 584!). Herb. Kew.

Tropical Himalaya and Khasia.

9. **Dendrobium Gibsoni**, *Paxt. Mag. Bot.* v. p. 169, with plate?; *Hook. f. Fl. Brit. Ind.* v. p. 746.

YUNNAN: Mengtze, S.E. mountains (*A. Henry*, 10613!). Herb. Kew.

Northern India.

The specimen is in fruit, but so far as it goes is not distinguishable from the Indian plant.

10. **Dendrobium hainanense**, *Rolfe, in Kew Bulletin* (1896), p. 193.

HAINAN: Lingmen (*A. Henry*! *Ford*, 272!); Hongting (*Ford*, 473!). Herb. Kew.

A species belonging to Lindley's section *Onychium*, and closely allied to the Philippine *D. aciculare*, Lindl., which, however, has longer internodes, more slender and straighter leaves, a shorter mentum, and a shorter and narrower lip.

11. **Dendrobium** (§ **Eudendrobium**) **Hancockii**, *Rolfe*, n. sp.

Caules graciles, parce ramosi, ½–1 ped. alti, 1½–3 lin. lati. *Folia* linearia, obtusa, inæqualiter bidentata, 2–3 poll. longa, 2–3 lin. lata. *Racemi* axillares, breves, biflori v. uniflori. *Bracteæ* ovatæ, acutæ, 1 lin. longæ. *Pedicelli* 6 lin. longi. *Sepala* et *petala* subæqualia, oblonga, subobtusa, v. apiculata, 10–11 lin. longa. *Labellum* trilobum, breviter et late unguiculatum, 9 lin. longum, 8 lin. latum, facie velutino-pubescens; lobi laterales rotundati, obtusi; lobum intermedium reniformi-orbiculare, subobtusum, 5–6 lin. latum. *Columna* lata, 2 lin. longa. *Mentum* breviter saccatum, obtusum, 1½–2 lin. longum.

YUNNAN: Mengtze, on rocks at 6000–7000 ft. (*Hancock*, 581!). Flowers yellow, strongly fragrant of honey. Herb. Kew.

A very distinct species, most nearly allied to *D. velutinum*, Rolfe (from Upper Burma), in floral details, but very different in its slender, branching habit.

[*Dendrobium hercoglossum*, Reichb. f. (Gard. Chron. (1886) ii. p. 487; Hamb. Gartenz. xlii. p. 487), is stated by Sir Joseph Hooker, in the 'Flora of British India,' vol. v. p. 730, to be Chinese. The statement is based on a specimen in the Kew Herbarium labelled "Canton, Mr. Ford," but on referring to

Mr. Ford's letter relating to it we find that it is "a *Dendrobium* which is cultivated about Canton." As Reichenbach originally stated that it was discovered in Malacca by Försterman, we do not enumerate it here.]

12. **Dendrobium Linawianum,** *Reichb. in Walp. Ann.* vi. p. 284; *Warn. & Will. Orch. Album,* iii. t. 141; *Veitch, Man. Orch.* pt. iii. p. 53.

Dendrobium moniliforme, *Lindl. Bot. Reg.* xvi. t. 1314, excl. syn. (non *Sw.*); *Paxt. Mag. Bot.* iii. p. 77, cum ic.; *Bot. Mag.* t. 4153; *Maund, Botanist,* iv. t. 194; *Ann. Bot. de Gand,* iii. (1847) t. 137.

CHINA: without locality. Herb. Kew.

The precise habitat of this species remains unknown. It was introduced from China by the Horticultural Society of London, in 1824, and for a long time was confused with *Dendrobium moniliforme,* Sw.

13. **Dendrobium Loddigesii,** *Rolfe, in Gard. Chron.* (1887) ii. p. 155, also p. 786; *Veitch, Man. Orch.* iii. p. 55.

Dendrobium pulchellum, *Lodd. Bot. Cab.* xx. t. 1935 (non *Roxb.*); *Maund, Botanist,* i. t. 5; *Bot. Mag.* t. 5037.

KWANGTUNG: 150 miles north-west of Canton, on rocks (*Ford!*); HAINAN (*A. Henry,* 8136!). Herb. Kew.

For many years this species was confounded with the Indian *Dendrobium pulchellum,* Roxb. (*D. Dalhousieanum,* Wall.).

14. **Dendrobium moniliforme,** *Sw. in Kongl. Vet.-Akad. Nya Handl. Stockh.* xxi. (1800) p. 246; *Lindl. Gen. & Sp. Orch.* p. 84.

Epidendrum moniliforme, *Linn. Sp. Pl.* ed. 1, p. 954.

Epidendrum monile, *Thunb. Fl. Jap.* p. 30.

Dendrobium catenatum, *Lindl. Gen. & Sp. Orch.* p. 84; *id. Bot. Reg.* xxx., *Misc.* p. 60; *Reichb. f. in Walp. Ann.* vi. p. 300.

Dendrobium japonicum, *Lindl. Gen. & Sp. Orch.* p. 89.

Onychium japonicum, *Blume, Bijdr.* p. 328.

CHINA: without locality (*Reeves* ex *Lindley*); COREA: Peel Island (*Oldham,* 832!). Herb. Kew.

Japan.

15. **Dendrobium nobile,** *Lindl. Gen. & Sp. Orch.* p. 79; *Sert. Orch.* t. 3; *Bot. Reg.* xxx., *Misc.* p. 48; *Hook. f. Fl. Brit. Ind.* v. p. 740.

HUPEH: Ichang (*A. Henry,* 2365!); SZECHUEN: Chingking (*A. Henry,* 3656!). Herb. Kew.

N.E. India, from Sikkim eastward.

"Sent from Chingking to Hankow as a 'medicine' export. The dried stems are also an article of export. It is *Shih-hu*: *Hut'ou*: *Ya-t'ou* of the Chinese."—*Dr. A. Henry.*

Var. **formosanum**, *Reichb. f. in Gard. Chron.* (1883) i. p. 432.

FORMOSA (*B. S. Williams*, cult.).

The species was originally described from Chinese material sent home by Mr. Reeves. A living plant, which was bought in the market at Macao, was brought home by him, and presented to Messrs. Loddiges, of Hackney. The variety I have not seen.

16. **Dendrobium yunnanense**, *Finet, in Bull. Soc. Bot. Fr.* xliv. (1897) p. 419, t. 13, fig. A–H.

YUNNAN: Lami, near the River Namna or Laniouho (*Prince Henri d'Orleans*, ex *Finet*).

17. **Dendrobium zonatum**, *Rolfe*, n. sp.

Pseudobulbi graciles, 7–12 poll. longi, foliati. *Folia* oblongo-lanceolata, subacuta, 2¼–3 poll. longa, 3–6 lin. lata. *Racemi* laterales, breves, 2–4-flori, vaginis membranaceis obtecti. *Bracteæ* late oblongæ, obtusæ, concavæ, membranaceæ, medio brunneo-zonatæ, 2½–3½ lin. longæ. *Pedicelli* graciles, 7–8 lin. longi. *Sepala* 9–10 lin. longa; posticum lanceolato-oblongum, subobtusum; lateralia triangulari-lanceolata, subacuta. *Petala* elliptico-oblonga, subacuta, 9–10 lin. longa. *Labellum* 7–8 lin. longum, pandurato-oblongum, basi latum, apice breviter acuminatum; discus medio pubescens. *Columna* brevissima. *Mentum* late saccatum, 2 lin. longum.

YUNNAN: Fengchenlin, mountain-forest at 7000 ft., on trees (*A. Henry*, 10668!). Flowers white. Herb. Kew.

Allied to *D. candidum*, Wall., but readily distinguished by the different bracts, which are remarkable on account of a broad brown zone about the middle.

1. **Bulbophyllum odoratissimum**, *Lindl. Gen. & Sp. Orch.* p. 55; *Wall. Cat.* n. 1987; *Hook. f. Fl. Brit. Ind.* v. p. 758.

YUNNAN: Mengtze, on mountains at 6000–7000 ft. (*Hancock*, 586!). Herb. Kew.

Northern India, from Nepal eastward to Tenasserim.

2. **Bulbophyllum radiatum**, *Lindl. Gen. & Sp. Orch.* p. 55; *Wall. Cat.* n. 1986; *Benth. Fl. Hongk.* p. 353; *Hook. f. Fl. Brit. Ind.* v. p. 758.

HUPEH: Ichang (*A. Henry*, 4548!); HONGKONG (*Champion*, 281! *Wright*, 515! *Ford*!). Mus. Brit.; Herb. Kew.

Burma.

3. **Bulbophyllum Watsonianum**, *Reichb. f. in Flora*, lxxi. (1888) p. 155.

Eria ambrosia, *Hance, in Journ. Bot.* xxi. (1883) p. 232.

HONGKONG (*Ford*!). Mus. Brit.; Herb. Kew.

This species flowered at Kew a few years ago from the above source. Its identity with *Eria ambrosia*, Hance, has only now been discovered; it is certainly not an *Eria*.

4. **Bulbophyllum** (§ **Sestochilos**) **yunnanense**, *Rolfe*, n. sp.

Rhizoma repens, validum. *Pseudobulbi* oblongi, monophylli, ¾–1¼ poll. longi. *Folia* petiolata, elliptico-oblonga, subobtusa, 1¾–5 poll. longa, ¾–1¼ poll. lata; petiolus ¼–1 poll. longus. *Scapi* breves, 1½–2½ poll. longi, 1–2-flori. *Bracteæ* ovato-oblongæ, apiculatæ, 4 lin. longæ. *Pedicelli* 1–1½ poll. longi. *Sepala* ovata, subobtusa, 5 lin. longa, lateralia basi cum columnæ pedi in mentum saccatum obtusum extensum. *Petala* ovata, subobtusa, 4 lin. longa, 7-nervia. *Labellum* unguiculatum, ovato-oblongum, subobtusum, recurvum, 4 lin. longum; unguis 1½ lin. longus. *Columna* lata, 1½ lin. longa. *Mentum* 4 lin. longum.

YUNNAN: Mengtze, rocks on Great Black mountains, at 6000 ft. (*Hancock*, 587!); North mountains at 7000 ft. (*A. Henry*, 11370!). Herb. Kew.

Near the Indian *B. affine*, Lindl., but the flowers have broader, more obtuse segments.

1. **Cirrhopetalum bicolor**, *Rolfe*.

Bulbophyllum bicolor, *Lindl. Gen. & Sp. Orch.* p. 49.

CHINA: without locality (*Reeves* ex *Lindley*); HONGKONG (*Ford*, 83!). Herb. Kew.

This species was originally described from a drawing.

2. **Cirrhopetalum chinense**, *Lindl. Bot. Reg.* xxviii. *Misc.* p. 37; xxix. t. 49.

Bulbophyllum chinense, *Reichb. f. in Walp. Ann.* vi. p. 260.

CHINA: without locality. Herb. Kew.

The precise locality of this species is not recorded. It was introduced to cultivation by Messrs. Loddiges, of Hackney, who flowered it in 1842.

3. **Cirrhopetalum delitescens**, *Rolfe, in Gard. Chron.* (1882) ii. p. 461.

Bulbophyllum delitescens, *Hance, in Journ. Bot.* xiv. (1876) p. 44.

HONGKONG (*Ford*! *Lamont*!). Mus. Brit.; Herb. Kew.

4. **Cirrhopetalum Fordii**, *Rolfe, in Kew Bulletin* (1896), p. 193.

KWANGTUNG (*Ford*, 359!). Herb. Kew.

This species has the general appearance of *C. gamosepalum*, Griff., which, however, has strongly ciliate petals and dorsal sepal.

5. **Cirrhopetalum Henryi**, *Rolfe*, n. sp.

Rhizoma repens, validum. *Pseudobulbi* 2¼–3 poll. distantes, ovoideo-oblongi, ¾–1 poll. longi, monophylli. *Folia* oblonga, obtusa, basi in petiolum brevem attenuata, 4–6 poll. longa, 10–16 lin. lata. *Scapi* graciles, 5–8 poll. longi, vaginis 2 lineari-lanceolatis obtecti. *Flores* umbellati. *Bracteæ* lineari-lanceolatæ, acutæ, 2½–3 lin. longæ. *Pedicelli* 4–6 lin. longi. *Sepalum* posticum ellipticum, apiculatum, subintegrum, 5-nervium, 2½–3 lin. longum; lateralia basi libera, dein fere omnino connata, apice breviter bidentata, 9–11 lin. longa, 4 lin. lata. *Petala* ovata, apiculata, denticulata, 1½ lin. longa. *Labellum* 2 lin. longum, recurvum, deltoideo-oblongum, obtusum, integrum, canaliculatum. *Columna* 1 lin. longa; dentes subulati, incurvi, ¼ lin. longi.

YUNNAN: Mengtze, mountain rocks, at 5000 ft. (*A. Henry*, 11264!). Flowers salmon-coloured. Herb. Kew.

6. **Cirrhopetalum retusiusculum**, *Hemsl. in Gard. Chron.* (1882) ii. p. 365; *Hook. f. Fl. Brit. Ind.* v. p. 776.

Bulbophyllum retusiusculum, *Reichb. f. in Gard. Chron.* (1869) p. 1182; *Trans. Linn. Soc.* xxx. (1874) p. 138.

YUNNAN: Mengtze, south-east mountain forests, at 7000 ft., on trees (*A. Henry*, 11106 *a*!). Herb. Kew. ?

Tenasserim.

7. **Cirrhopetalum tigridum**, *Rolfe*.

Bulbophyllum tigridum, *Hance in Journ. Bot.* xxi. (1883) p. 232.

KWANGTUNG: Lofaushan, at 3000 ft. alt. (*Faber*, 151!). Herb. Kew.

8. **Cirrhopetalum Wallichii**, *Lindl. in Wall. Pl. As. Rar.* i. p. 53, t. 67; *Gen. & Sp. Orch.* 59; *Hook. f. Fl. Brit. Ind.* v. p. 776.

YUNNAN: south-east mountain forests, 40 miles from Mengtze, at 7000 ft., on trees (*A. Henry*, 11106 !). Herb. Kew.

Temperate Himalaya.

1. **Eria cæspitosa,** *Rolfe, in Kew Bulletin* (1896), p. 194.

HAINAN. Flowered at Kew in August 1894, the plant having been received from the Hongkong Botanic Garden, with other Hainan orchids.

An anomalous little species, differing from every other in its tufted habit and absence of pseudobulbs. The flowers are white, with a pair of maroon stripes at the base of the petals and lateral sepals, the dorsal sepal having four. The front lobe of the lip is yellow, and the angles of the side-lobes maroon-purple. It approaches nearest to the section *Bulbodium.*

2. **Eria Corneri,** *Reichb. f. in Gard. Chron.* (1878) ii. p. 106.

FORMOSA (*Corner*); KWANGTUNG: Lofaushan (*Ford*, 149 !). Herb. Kew.

I have not seen Formosan specimens, but according to Reichenbach it was introduced to cultivation from this island by Mr. Arthur Corner, and flowered with Mr. Charles Leach, of King's Road, Clapham Park.

3. **Eria (§ Dendrolirium) formosana,** *Rolfe, in Kew Bulletin* (1896), p. 194.

FORMOSA: South Cape (*A. Henry*, 1978 !). Herb. Kew.

4. **Eria (§ Dendrolirium) hainanensis,** *Rolfe,* n. sp.

Rhizoma crassum. *Pseudobulbi* elliptico-oblongi, subcompressi, 1½–2½ poll. longi, 1–1¼ poll. lati. *Folia* oblongo-lanceolata, acuta, 5–9 poll. longa, ¾–1½ poll. lata. *Scapi* validi, 1–1¼ ped. alti, cum pedicellis et floribus crasse tomentosis; racemi breves, multiflori. *Bracteæ* ovatæ v. ovato-lanceolatæ, acutæ, 6–9 lin. longæ. *Pedicelli* 12–15 lin. longi. Sepalum posticum oblongo-lanceolatum, obtusum, 6–7 lin. longum; lateralia falcato-lanceolata, obtusa, 6–7 lin. longa, basi obliqua. *Petala* lineari-lanceolata, subacuta, 5–6 lin. longa. *Labellum* recurvum, trilobum, 6–7 lin. longum; lobi laterales erecti, semioblongi, angusti, subobtusi; lobus intermedius obovatus, subobtusus v. apiculatus, undulatus, basi angustus; discus tricarinatus, carinis antice verrucosis. *Columna* lata, 1½ lin. longa. *Mentum* saccato-oblongum, 2 lin. longum.

HAINAN: Hongta, on trees (*Ford*, 474 ! 574 !). Herb. Kew.

Nearly allied to *E. ornata*, Lindl., from Java, *E. armeniaca*, Lindl., from the Philippines, and *E. tomentosa*, Hook. f., from India.

5. **Eria luchuensis**, *Yatabe, in Tokyo Bot. Mag.* vii. (1892) p. 131, t. 6.

LUCHU ARCHIPELAGO: at Nishi-omoteshima (*Tashiro*!). Herb. Kew.

Allied to the Indian *E. myosurensis*, Lindl.

6. **Eria rosea,** *Lindl. Bot. Reg.* xii. t. 978; *et in Journ. Linn. Soc., Bot.* iii. (1859) p. 50; *Benth. Fl. Hongk.* p. 353.

HONGKONG (*Wilford*, 381! *Champion*, 275!). Mus. Brit.; Herb. Kew.

This species flowered in the garden of the Horticultural Society, at Chiswick, in 1824. It is said to have been introduced from China, by Mr. J. D. Parks. Its Hongkong habitat seems to be the only one certainly known.

7. **Eria pannea**, *Lindl. Bot. Reg.* 1842, *Misc.* p. 74; *et in Journ. Linn. Soc., Bot.* iii. (1859) p. 50; *Hook. f. Fl. Brit. Ind.* v. p. 804.

HAINAN (*Ford*, 571!). Herb. Kew.

India.

8. **Eria sinica**, *Lindl. in Journ. Linn. Soc., Bot.* iii. (1859) p. 48.

Conchidium sinicum, *Lindl. in Hook. Kew Journ.* vii. (1855) p. 34.

Eria pusilla, *Benth. Fl. Hongk.* p. 353 (non *Lindl.*).

HONGKONG (*Champion*, 278! *Hance*, 435!). Mus. Brit.; Herb. Kew.

Quite distinct from the Khasian species, with which Bentham confounds it.

1. **Phreatia elegans**, *Lindl. Gen. & Sp. Orch.* p. 63; *Journ. Linn. Soc., Bot.* iii. (1859) p. 61; *Hook. f. Fl. Brit. Ind.* v. p. 810.

Thelasis elegans, *Blume, Mus. Lugd.-Bat.* ii. p. 187.

YUNNAN: Mengtze, S.E. mountain forests, at 5000 ft., on trees (*A. Henry*, 11093!). Flowers white. Herb. Kew.

N. India, Ceylon, and Java.

2. **Phreatia formosana**, *Rolfe, in Ann. of Bot.* ix. (1895) p. 156.

FORMOSA: South Cape (*A. Henry*, 1349!). Herb. Kew.

1. **Pachystoma chinense**, *Reichb. f. in Bonplandia*, iii. (1855) p. 251; *Benth. Fl. Hongk.* p. 356.

Apaturia chinensis, *Lindl. Gen. & Sp. Orch.* p. 131.

FORMOSA: Tangkang (*A. Henry*, 384!); KWANGTUNG:

near Macao (*Vachel*!); HONGKONG (*Champion*, 280! *Wright*, 521! *Tate*! *Urquhart*, 148! *Hance*, 260! *Lamont*, 759!). Mus. Brit.; Herb. Kew.

1. **Spathoglottis pubescens**, *Lindl. Gen. & Sp. Orch.* p. 120; *Journ. Linn. Soc., Bot.* iii. (1859) p. 22; *Kurz, in Journ. of Bot.* xi. (1873) p. 193; *Hook. f. Fl. Brit. Ind.* v. p. 814.

Spathoglottis Fortunei, *Lindl. Bot. Reg.* xxxi. t. 19; *Benth. Fl. Hongk.* p. 355.

Pachystoma Fortunei, *Reichb. f. in Walp. Ann.* vi. p. 464.

YUNNAN (*Anderson*): on mountain grassy moor at 6500 ft. alt.; at Mengtze, very rare (*Hancock*, 84!), 5000 ft. (*A Henry*, 11096!); HONGKONG (*Fortune*, 79! *Champion*, 279! *Hance*, 383! 862! *Wilford*, 285! *Wright*, 518! *Lamont*, 758!). Mus. Brit.; Herb. Kew.

Khasia and Naga Hills to the mountains of Arracan and Burma.

There seems no character to separate the Hongkong plant. The villose lip is found in some Indian specimens.

1. **Phaius grandifolius**, *Lour. Fl. Cochinch.* p. 729; *Lindl. Gen. & Sp. Orch.* p. 126; *Benth. Fl. Hongk.* p. 355; *Benth. Fl. Austral.* vi. p. 304; *Griseb. Fl. Brit. W. Ind.* p. 622.

Limodorum Tancarvilleæ, *Banks, ex L'Hérit. Sert. Angl.* p. 28.

Limodorum Tankervilliæ, *Dryand., Ait. Hort. Kew.* ed. 1, p. 302, t. 12.

Limodorum Incarvillei, *Sw. ex Pers. Syn.* ii. p. 520.

Bletia Tankervilliæ, *R. Br. in Ait. Hort. Kew.* ed. 2, v. p. 205; *Bot. Mag.* t. 1924.

Pachyne spectabilis, *Salisb. in Trans. Hort. Soc.* i. (1812) p. 299.

Phaius Tankervillii, *Blume, Mus. Bot. Lugd.-Bat.* ii. p. 177.

Calanthe speciosa, *Vieill. in Ann. Sc. Nat.* sér. 4, xvi. (1861) p. 44.

FORMOSA: Tamsui (*Oldham*, 556!); HONGKONG (*Champion*, 283! *Urquhart*, 151! *Wilford*, 419! *Wright*, 519! *Hance*, 723! *Lamont*!). Mus. Brit.; Herb. Kew.

New Caledonia, Rarotonga, and North Australia, both in Queensland and New South Wales; also naturalized in Jamaica and Cuba in the West Indies.

1. **Thunia Marshalliana**, *Reichb. f. in Linnæa*, xli. (1877) p. 65; *Gartenfl.* xxxi. p. 321, t. 1098; *Warn. & Will. Orch. Alb.* iii. t. 130.

YUNNAN: Mengtze, wet mountains at 5000 ft. (*A. Henry*, 11091!). Herb. Kew.

Burma.

1. **Bletia hyacinthina**, *R. Br. in Ait. Hort. Kew.* ed. 2, v. p. 206; *Lindl. Gen. & Sp. Orch.* p. 122; *Blume, Coll. Orch. Archip. Ind. et Jap.* p. 17, t. 6, fig. 1.

Limodorum striatum, *Thunb. Fl. Jap.* p. 28.

Epidendrum tuberosum, *Lour. Fl. Cochinch.* p. 523, excl. syn.

Epidendrum striatum, *Thunb. in Trans. Linn. Soc.* ii. (1794) p. 327; *Thunb. Ic. Jap.* i. t. 9.

Cymbidium striatum, *Sw. in Nov. Act. Soc. Sc. Upsal.* vi. (1799) p. 77.

Cymbidium hyacinthinum, *Sm. Exot. Bot.* i. p. 117, t. 60; *Bot. Mag.* t. 1492.

Gyas humilis, *Salisb. in Trans. Hort. Soc.* i. (1812) p. 300.

Bletilla striata, *Reichb. f. in Bot. Zeit.* xxxvi. (1878) p. 75.

Chekiang: Ningpo (*Cooper*!); Kiangsi: Kiukiang (*Shearer*! *Carles*, 242!); Hupeh: Ichang, Nanto, and mountains to northward (*A. Henry*, 492! 1909!); Szechuen: Min River and Mt. Omei, at 4500 ft. alt. (*Faber*, 940!); Yunnan: Mengtze, 6000 ft. (*A. Henry*, 11104 & 11104 C!); Kwangtung (*Ford*, 377!). Mus. Brit.; Herb. Kew.

Japan and Eastern Tibet.

Var. **Gebina**, *Blume, Coll. Orch. Archip. Ind. et Jap.* p. 17, t. 6. fig. 2.

Bletia Gebina, *Lindl. in Journ. Hort. Soc.* ii. (1847) p. 307; *Lindl. Bot. Reg.* xxxiii. t. 60.

Bletilla Gebinæ, *Reichb. f. in Fl. des Serres*, sér. 1, viii. (1851–53) p. 246.

Bletilla striata, var. Gebinæ, *Reichb. f. in Bot. Zeit.* xxxvi. (1878) p. 75.

Yunnan: grassy slopes at 5000–6500 ft., Mengtze (*Hancock*, 98!), Flowers yellowish white; 4700–6000 ft. (*A. Henry*, 11104 A & B!); Kwangsi (*Bourne*!). Herb. Kew. ?

Japan.

1. **Nephelaphyllum chinense**, *Rolfe, in Kew Bulletin* (1896), p. 194.

Kwangtung: in rupibus ad Tingushan, West River, Prov. Canton (*Hance*, 17733!). Mus. Brit.

2. **Nephelaphyllum cristatum**, *Rolfe, in Kew Bulletin* (1896), p. 194.

Hongkong (*Ford*, 48 & 254!). Herb. Kew.

An interesting outlying species of this small Indo-Malayan genus, known only from the Victoria Peak, where it grows among grasses. It is allied to *N. cordifolium*, Lindl., but has a

much more developed crest. According to Mr. Ford, the sepals and petals are green with purplish streaks near the base, the lip white, passing into purple and then green near the base, the column pinkish, and the leaves and flower-stems mottled with dull purple on an olive-green ground. A plant in the Kew collection flowered in May, 1893.

HANCOCKIA, *Rolfe.*

(Genus novum affine *Nephelaphyllo.*)

Sepala subæqualia, libera, subconniventia, omnia angusta. *Petala* sepalis subsimilia. *Labellum* ad basin columnæ breviter adnatum, erectum, longe calcaratum, elliptico-oblongum, subtrilobum, lobis lateralibus subinvolutis; discus tricarinatus. *Columna* erecta, longiuscula, 2-alata, apoda, vertice in clinandrium angustum producta. *Anthera* operculata, apice subobtusa, loculis 2, bene distinctis; pollinia 8, cerea, in quoque loculo 4, compressa, parallela, 2-seriata, appendiculæ lineari sursum adnata.—*Herba* terrestris, repens, epseudobulbosa. *Folia* solitaria, ovata, submembranacea, breviter petiolata. *Scapus* brevis, in vagina scariosa inclusus, uniflorus. *Flores* mediocres.

1. **Hancockia uniflora,** *Rolfe*, sp. unica.

Rhizoma repens, gracilis. *Folia* ovata, acuta, 1¼–1¾ poll. longa, 7–9 lin. lata; petioli 4–8 lin. lati. *Scapi* 2 poll. longi. *Sepala* et *petala* lineari-lanceolata, 9–10 lin. longa. *Labellum* 8 lin. longum, 5 lin. latum; calcar tubulosum, 8 lin. longum. *Columna* 6 lin. longa.

? –

YUNNAN: Mengtze, S.E. mountain forests, at 5000 ft., on ground (*A. Henry*, 11112 !). Flowers pink. Herb. Kew.

Allied to *Nephelaphyllum*, but differing in its short, 1-flowered scapes, connivent sepals and petals, and long slender spur. It is dedicated to W. Hancock, Esq., F.L.S., who has sent to Kew several collections of dried plants from China.

1. **Tainia cordifolia,** *Hook. f. in Hook. Ic. Pl.* xix. t. 1861.

FORMOSA: Kelung (*Ford*, 56 !). Mus. Brit.; Herb. Kew.

2. **Tainia hongkongensis,** *Rolfe, in Kew Bulletin* (1896), p. 195.

Ania angustifolia, *Benth. Fl. Hongk.* p. 356 (non *Lindl.* !).

HONGKONG (*Wilford*, 384! *Wright*, 522! *Hance*! *Ford*!). Mus. Brit.; Herb. Kew.

Very easily distinguished from the Indian *Ania angustifolia*, Lindl., with which Bentham confounded it, by its entire, not trilobed lip.

3. **Tainia macrantha**, *Hook. f. in Hook. Ic. Pl.* xix. t. 1860.

KWANGTUNG: Lofaushan, at 3100 ft. (*Ford*, 153!). Herb. Kew.

1. **Agrostophyllum formosanum**, *Rolfe, in Ann. Bot.* ix. (1895) p. 157.

FORMOSA: South Cape (*A. Henry*, 1350!). Herb. Kew.

1. **Anthogonium gracile**, *Lindl. in Wall. Cat.* n. 7398; *Gen. & Sp. Orch.* p. 426; *Journ. Linn. Soc., Bot.* iii. (1859) p. 22; *Hook. f. Fl. Brit. Ind.* v. p. 822; *Allg. Gartenz.* (1856) p. 218.

Anthogonium Griffithii, *Reichb. f. in Bonplandia*, ii. (1854) p. 90; *Walp. Ann.* vi. p. 471.

Anthogonium sp., *Griff. Notul.* iii. p. 383; *Ic. Pl. Asiat.* t. 345, fig. 2.

YUNNAN: Mengtze, among grass at 5000 ft. (*Hancock*, 366!), Flowers rose-coloured; grassy mountains at 5500 ft. (*A. Henry*, 11099!), Flowers pink. Herb. Kew.

North India and Burma.

1. **Cœlogyne** (§ **Pleione**) **bulbocodioides**, *Franch. Pl. David.* ii. p. 122 (excl. pl. Delavay).

KWEICHAU (*Faurie* ex *Franchet*).

Eastern Tibet.

Delavay's Yunnan plant, formerly included here by M. Franchet, belongs to the next species.

I have only seen specimens from Eastern Tibet, but M. Franchet, in a letter, says that no doubt the Kweichau plant is identical.

2. **Cœlogyne** (§ **Pleione**) **Delavayi**, *Rolfe, in Kew Bulletin* (1896), p. 195.

YUNNAN (*Delavay*!). Herb. Kew.

Distinguished from the preceding, with which M. Franchet formerly identified it, by its larger flowers, broader, less acute sepals and petals, and distinctly toothed lamellæ. The specimens were communicated by M. Franchet, with the remark that he now questioned his former determination, because of the characters just pointed out. Another difference is that in *C. bulbocodioides* the petals are only half as broad as the sepals.

3. **Cœlogyne corymbosa**, *Lindl. Fol. Orch., Cœlog.* p. 7; *Reichb. f. in Gard. Chron.* (1876) ii. p. 8; *Rolfe, op. cit.* 1887, ii. p. 73, fig. 15; *Bot. Mag.* t. 6955; *Hook. f. in Fl. Brit. Ind.* v. p. 831.

YUNNAN: Mengting, S. of Red River, at 8000 ft., on trees (*A. Henry*, 11114!). Herb. Kew.

Temperate Himalaya.

4. **Cœlogyne elata**, *Lindl. Gen. & Sp. Orch.* p. 40; *Kurz, in Journ. Bot.* xi. (1873) p. 193; *Bot. Mag.* t. 5001; *Hook. f. Fl. Brit. Ind.* v. p. 838.

YUNNAN: Momien (*Anderson*!). Herb. Kew.

Tropical Himalaya and Upper Burma.

5. **Cœlogyne fimbriata**, *Lindl. in Bot. Reg.* xi. t. 868; *id. Fol. Orch., Cœl.* p. 12; *Benth. Fl. Hongk.* p. 354; *Hook. f. Fl. Brit. Ind.* p. 836.

HONGKONG (*Champion*, 527! *Wilford*, 101! *Hance*, 401! *Lamont*, 755!); KWANGTUNG: near Canton (*Faber*!). Mus. Brit.; Herb. Kew.

Khasia Hills.

6. **Cœlogyne** (§ **Pleione**) **grandiflora**, *Rolfe*, n. sp.

Rhizoma validum. *Pseudobulbi* ovoidei v. ovoideo-oblongi, 1¼–1½ poll. longi. *Folia* immatura tantum visa. *Scapi* erecti, 4–5 poll. longi, basi vaginis imbricatis obtecti, uniflori. *Bracteæ* lanceolato-oblongæ, obtusæ, 1¼–1½ lin. longæ. *Sepala* et *petala* subsimilia, lanceolato-oblonga, obtusa, 2¼ poll. longa, 5–6 lin. lata. *Labellum* obscure trilobum, late elliptico-oblongum, 2¼ poll. longum, 1¾ poll. latum, valde fimbriatum, disco medio fere ad apicem 5-carinatum, carinis fimbriatis. *Columna* clavata, 1½ poll. longa, alata, apice 4 lin. lata.

YUNNAN: Mengtze, northern mountain forests, at 8500 ft. (*A. Henry*, 11116). Flowers white. Herb. Kew.

A handsome species, apparently most nearly allied to the Himalayan *C. præcox*, Lindl.

7. **Cœlogyne** (§ **Pleione**) **Henryi**, *Rolfe, in Kew Bulletin* (1896), p. 195.

HUPEH: South Patung (*A. Henry*, 6068, 6068 *a*!); SZECHUEN (*A. Henry*, 8826!). Mus. Brit.; Herb. Kew.

Larger in all its parts than the other Chinese species of the

section *Pleione*, and the leaves well developed when the flowers appear.

8. **Cœlogyne (§ Pleione) pogonoides**, *Rolfe, in Kew Bulletin* (1896), p. 196.

Pogonia (§ Eupogonia), sp., *Hance, in Journ. Bot.* xxiii. (1885) p. 247.

ANWHEI: wet rocks near Wuhu, at 3000 ft. alt. (*Bullock*, hb. *Hance*, 22038!); HUPEH: Patung, in high mountains (*A. Henry*, 1473, 3785!). Mus. Brit.; Herb. Kew.

This species differs from *C. bulbocodioides*, which it otherwise much resembles, in having the petals as broad as the sepals, the keels of the lip distinctly crenate, and the leaves partially developed at the time of flowering. Hance, in the place above cited, calls it a *Pogonia*, which it is not, though the resemblance is perhaps sufficient to justify the specific name. Mr. Bullock records the colour of the flowers as bright scarlet, and Dr. A. Henry as pink. The latter states that it is known as "*Pen mu*" drug, the bulbs being used in medicine.

9. **Cœlogyne (§ Pleione) yunnanensis**, *Rolfe*, n. sp.

Rhizoma validum. *Pseudobulbi* parvi, approximati. *Folia* non vidi. *Scapi* graciles, erecti, 4–5 poll. longi, basi vaginis oblongis obtecti, uniflori. *Bracteæ* tubuloso-oblongæ, obtusæ, 10–12 lin. longæ. *Sepala* et *petala* subsimilia, oblongo-lanceolata, subacuta, 1½ poll. longa, 4 lin. lata. *Labellum* obovato-orbiculare, subintegrum v. obscure trilobum, obtusum, 14 lin. longum et latum, apice fimbriatum; disco medio fere ad apicem acute 5-lamellatum, lamellis subintegris. *Columna* clavata, alata, 9–10 lin. longa, apice 3 lin. lata.

YUNNAN: Mengtze, grassy mountains to north, at 5500 ft. (*A. Henry*, 11113!), Flowers pink; Mountain pastures, 6000–7000 ft. (*Hancock*, 173!), Flowers red to purple. Herb. Kew.

Allied to *C. Delavayi*, Rolfe, but different both in the shape of the pseudobulbs and details of the flowers. A. Henry, 11115, from south of Red River, at 9000 ft., on rocks, is very similar in the scape and bract, but the pseudobulbs are narrowly oblong. The flowers appear to have been over when specimens were collected, and the species remains doubtful.

1. **Pholidota cantonensis**, *Rolfe, in Kew Bulletin* (1896), p. 196.

KWANGTUNG: North River, Canton (*Ford*, 139!). Herb. Kew.

2. **Pholidota chinensis,** *Lindl. in Journ. Hort. Soc.* ii. (1847) p. 308; *Benth. Fl. Hongk.* p. 354.

Cœlogyne chinensis, *Reichb. f. in Walp. Ann.* vi. p. 237.
Cœlogyne Pholas, *Reichb. f. in Walp. Ann.* vi. p. 237.
Pholidota Pholas, *Reichb. f. in Walp. Ann.* vi. p. 237 (in note).

HONGKONG (*Champion*, 276! *Wright*, 516! *Fortune*! *Seemann*, *Hance*, 971!); HAINAN (*B. C. Henry*, 136!). Mus. Brit.; Herb. Kew.

3. **Pholidota Lugardi,** *Rolfe, in Kew Bulletin* (1893), p. 6.

YUNNAN: Mengtze, on a bank at 5000 ft. (*A. Henry*, 11126!). Herb. Kew.

Upper Burma.

The Mengtze specimen is in fruit, but is so similar in general character to the original specimen from Burma as to leave scarcely a doubt as to their identity. The withered flowers persist on the capsules, and proved quite perfect when soaked in hot water and spread out.

4. **Pholidota yunnanensis,** *Rolfe*, n. sp.

Rhizoma validum, lignosum. *Pseudobulbi* oblongi v. ovoideo-oblongi, $\frac{3}{4}$–$1\frac{1}{2}$ poll. longi, diphylli, $\frac{1}{2}$–1 poll. distantes. *Folia* lanceolata, subobtusa, coriacea, 3–5 poll. longa, 4–8 lin. lata. *Scapi* arcuati, graciles, 3–4 poll. longi, basi vaginis oblongis imbricatis obtecti; racemi flexuosi, multiflori. *Bracteæ* elliptico-oblongæ, subobtusæ, convoluto-concavæ, 3–4 lin. longæ. *Pedicelli* $2\frac{1}{2}$–4 lin. longi. *Sepala* late ovato-oblonga, obtusa, concava, 2 lin. longa. *Petala* subsimilia. *Labellum* obovatum, $2\frac{1}{2}$ lin. longum; basi globoso-saccatum, 1 lin. longum; limbus obscure 4-lobus, 2 lin. latus. *Columna* clavata, 1 lin. longa.

YUNNAN: Mengtze, on rocks at 6000–7000 ft. (*Hancock*, 585!), Flowers cream-coloured; Rocky mountains at 6500 ft., on exposed rocks (*A. Henry*, 11144!). Herb. Kew.

Allied to the Indian *Pholidota articulata*, Lindl., but the leaves much narrower, pseudobulbs less distant, and the lip very different in structure.

1. **Calanthe angusta,** *Lindl. Fol. Orch., Calanthe,* p. 7; *Hook. f. Fl. Brit. Ind.* v. p. 849.

YUNNAN: marshy hill-slopes at Mengtze (*Hancock*, 38!). Rare or very local. Flowers pure white. Herb. Kew.

Khasia Hills and Munnipore.

2. **Calanthe arcuata**, *Rolfe, in Kew Bulletin* (1896), p. 196.

HUPEH: Hsingshan (*A. Henry*, 6514!). Herb. Kew.

Allied to the Himalayan *C. brevicornu*, Lindl., but readily distinguished by the structure of the lip, the more slender spur, and other differences. The name is given in allusion to the character of the spur. According to Dr. Henry, the flowers are yellow and purple.

3. **Calanthe buccinifera**, *Rolfe, in Journ. Linn. Soc., Bot.* xxix. (1892) p. 318.

HUPEH: N. Patung (*A. Henry*, 7161!), S. Patung, at 6000 ft. elevation (*A. Henry*, 6064!); SZECHUEN: Mt. Omei, at 5000 ft. elevation, in dense jungle (*Faber*, 953!); without locality (*Pratt*, 72, 102, 683!). Mus. Brit.; Herb. Kew.

Flowers pink, according to Dr. Henry.

4. **Calanthe ecarinata**, *Rolfe, in Journ. Linn. Soc., Bot.* xxix. (1892) p. 318.

SZECHUEN: without locality (*Pratt*, 765!). Herb. Kew.

5. **Calanthe ensifolia**, *Rolfe, in Kew Bulletin* (1896), p. 197.

HUPEH: Chienshih (*A. Henry*, 6005!); SZECHUEN: Mt. Omei, at 4500 ft. (*Faber*, 945!). Herb. Kew.

Remarkable for its long narrow leaves, which much resemble those of *C. Davidi*, Franch., but the lip is very different in shape. Dr. Henry describes the flowers as yellow.

6. **Calanthe formosana**, *Rolfe, in Ann. Bot.* ix. (1895) p. 157.

FORMOSA: South Cape (*A. Henry*, 1347!). Herb. Kew.

7. **Calanthe gracilis**, *Lindl. Gen. & Sp. Orch.* p. 251; *Bot. Mag.* t. 4714; *Hook. f. Fl. Brit. Ind.* v. p. 855.

Limatodes gracilis, *Lindl. Fol. Orch., Limatod.* p. 1; *Hook. Kew Journ. Bot.* vii. (1855) p. 36; *Benth. Fl. Hongk.* p. 359.

HONGKONG (*Champion*, 520!). Mus. Brit.; Herb. Kew.

Khasia Hills.

8. **Calanthe Hancockii**, *Rolfe, in Kew Bulletin* (1896), p. 197.

YUNNAN: under shady blocks of rock at 6600 ft., Mengtze (*Hancock*, 78!). Flowers yellow. Very rare. Herb. Kew.

Allied to *C. striata*, R. Br., but with much smaller lip.

9. **Calanthe Henryi**, *Rolfe, in Kew Bulletin* (1896), p. 197.

HUPEH: Changyang (*A. Henry*, 5253 A, 5253 D, 5958 A!). Herb. Kew.

Allied to the Himalayan *Calanthe plantaginea*, Lindl., but with a more lax raceme and a shorter spur. Dr. Henry records the flowers as whitish with a little yellow.

10. **Calanthe herbacea**, *Lindl. Fol. Orch., Cal.* p. 10; *Hook. f. Fl. Brit. Ind.* v. p. 852; *Hook. f. in Ann. Roy. Bot. Gard. Calc.* v. p. 30, t. 44; *King & Pantl., op. cit.* viii. p. 172, t. 233.

Calanthe elytroglossa, *Reichb. f.* ex *Hook. f. Fl. Brit. Ind.* v. p. 853.

YUNNAN: Mengtze, S.E. mountain forests, at 5000 ft. (*A. Henry*, 11130!). Flowers yellowish. Herb. Kew.

Sikkim Himalaya.

There remains a slight doubt about this determination, but I fail to distinguish the Yunnan plant from the two cited above, which themselves are considered distinct in the 'Flora of British India,' where, however, they are separated by the interpolation of four other quite distinct species, and are not compared together.

11. **Calanthe lamellosa**, *Rolfe, in Kew Bulletin* (1896), p. 197.

HUPEH: Chienshih (*A. Henry*, 5958!). Mus. Brit.; Herb. Kew.

Allied to the Himalayan *C. brevicornu*, Lindl., but readily distinguished by its narrower, more elevated membranaceous plates to the lip. Dr. Henry records the flowers as white with a little red and yellow.

12. **Calanthe puberula**, *Lindl. Gen. & Sp. Orch.* p. 252; *Fol. Orch., Cal.* p. 2; *Hook. f. Fl. Brit. Ind.* v. p. 848.

SZECHUEN: Mount Omei, in dense jungle at 5000 ft. (*Faber*, 953!). Herb. Kew.

Subtropical Himalaya from Simla eastward.

13. **Calanthe tricarinata**, *Lindl. Gen. & Sp. Orch.* p. 252; *Fol. Orch., Cal.* p. 2; *Hook. f. Fl. Brit. Ind.* v. p. 847.

YUNNAN: Mengtze, mountain forests, at 7000 ft. (*A. Henry*, 11297!). Herb. Kew.

Temperate Himalaya, from Kashmir to Nepal.

I fail to distinguish this from the Himalayan plant. The oldest bud was just on the point of expanding when gathered.

14. **Calanthe veratrifolia**, *R. Br. in Bot. Reg.* vii. sub t. 573; *Bot. Mag.* t. 2615; *Hook. f. Fl. Brit. Ind.* v. p. 851; *Kränzl. in Engl. Bot. Jahrb.* vi. (1885) p. 54.

FORMOSA: South Cape (*A. Henry*, 1327!); HONGKONG

(*Ford*, 89! an culta?); LUCHU ARCHIPELAGO: Amami Osima (*Döderlein* ex *Kränzlin*). Herb. Kew.

Mr. Ford's specimen is unlocalized, and therefore it is not quite clear whether it is indigenous or cultivated.

South India, Ceylon, Malay Islands, and Tropical Australia.

15. **Calanthe yunnanensis**, *Rolfe*, n. sp.

Folia 2 v. 3, elliptico- v. oblanceolato-oblonga, acuta, basi in petiolum vaginatum attenuata, 8–14 poll. longa, $1\frac{1}{2}$–$2\frac{1}{4}$ poll. lata, basi vaginis latis imbricatis obtecta. *Scapi* 1–2 poll. alti, erecti; racemi 5–8 poll. longi, 7–12-flori. *Bracteæ* ovato-lanceolatæ, acuminatæ, 3–6 lin. longæ. *Pedicelli* 8–12 lin. longi. *Sepala* ovato-lanceolata, acuminata, 9–11 lin. longa. *Petala* oblongo-lanceolata, apiculato-acuminata, 8–10 lin. longa. *Labellum* basi columnæ adnatum, breviter unguiculatum, trilobum, 8–9 lin. longum, 6 lin. latum; lobi laterales reniformi-orbiculares, truncati; lobus intermedius transverse oblongus, emarginatus, subundulatus, basi valide trilamellatus, lamellis crenulatis; calcar oblongum, subobtusum, 1–$1\frac{1}{2}$ lin. longum. *Columna* lata, 3–4 lin. longa.

YUNNAN: Mengtze, mountain forests at 8000–9000 ft. (*Hancock*, 589!), Flowers creamy green, with lilac lip; fragrant of grated cocoa-nut; mountain forests at 8000 ft. (*A. Henry*, 11107!). Herb. Kew.

Allied to the Indian *Calanthe brevicornu*, Lindl., but having larger flowers, with broader segments.

16. **Calanthe** sp.

YUNNAN: Mengtze, E. mountain forests, at 7000 ft. (*A. Henry*, n. 11359!). Herb. Kew.

In fruit only, and therefore indeterminable.

1. **Arundina chinensis**, *Blume*, *Bijdr.* p. 402; *Lindl. Gen. & Sp. Orch.* p. 125; *Hook. & Arn. Bot. Beech. Voy.* p. 217; *Benth. Fl. Hongk.* p. 355; *Hook. f. Fl. Brit. Ind.* v. p. 857.

Cymbidium Meyenii, *Schauer, in Nov. Act. Nat. Cur.* xix. *Suppl.* i. (1843) p. 433.

Arundina Meyenii, *Reichb. f. in Linnæa*, xxv. (1852) p. 227.

Arundina Philippii, *Reichb. f. in Linnæa*, xxv. (1852) p. 227; *Seem. Bot. Voy. Herald*, p. 419.

Arundina pulchella, *Teijsm. et Binn. in Nederl. Kruidk. Arch.* iii. (1855) p. 400.

Arundina pulchra, *Miq. Journ. Bot. Néerl.* i. (1861) p. 90.

CHINA: without locality (*Fortune*, 21, 73!); FOKIEN (*Carles*, 687!), Amoy (*Swinhoe*!), Foochow (*Hurst* ex *A. Henry*, 2078!); FORMOSA: Siko Hill, Tamsui (*A. Henry*, 1386!, 1386*a*!); SZECHUEN (*A. Henry*, 8915!); YUNNAN: on mountain grassy slopes at 5700–6000 ft. (*Hancock*, 83!), 5500 ft. (*A. Henry*, 9988!); HONGKONG (*Champion*, 22! *Seemann*, 2402! *Wright*, 517! *Wilford*, 74! *Lamont*, 756! *Urquhart*!); KWANGTUNG: Macao and the islands adjacent (*Vachell*, 82! *Nelson*!). Mus. Brit.; Herb. Kew.

North India, from Sikkim to Khasia.

[*Epidendrum tuberosum*, Lour. Fl. Cochinch. p. 523, mentioned as being cultivated in China, is a species of *Phaius*, probably *P. grandifolius*, Lour.]

[*Broughtonia chinensis*, Lindl. ex Benth. in Hook. Lond. Journ. Bot. i. (1842) p. 192; *Læliopsis chinensis*, Lindl. in Paxt. Fl. Gard. iii. p. 156; Benth. in Hook. Kew Journ. Bot. vii. (1855) p. 38; is *Epidendrum non-chinense*, Reichb. f. in Walp. Ann. vi. p. 324, a Central American species which through error was assigned a Chinese habitat.]

ORCHIDACEÆ: VANDEÆ.

1. **Eulophia Faberi**, *Rolfe, in Kew Bulletin* (1896), p. 198.

HUPEH: Lukan gorge, Yangtse-kiang (*Faber*, 55, 946!), Ichang (*A. Henry*, 494, 3589!); YUNNAN: Red River Valley, Manpan, on grassy hills at 2000 ft. (*A. Henry*, 10612!). Flowers red. Herb. Kew.

This species resembles *E. campestris*, Wall., from the plains of India and Afghanistan. The flowers, however, are rather larger and less numerous, the details of the lip somewhat different, and the spur longer.

2. **Eulophia flava**, *Hook. f. Fl. Brit. Ind.* vi. p. 7.

Cyrtopera flava, *Lindl. Gen. & Sp. Orch.* p. 189; *Royle, Illustr.* p. 370, t. 88. fig. 1; *Benth. Fl. Hongk.* p. 357; *Reichb. f. in Gard. Chron.* (1870) p. 1407.

HONGKONG (*Wright*, 520!). Herb. Kew.

India, from near Garhwal to Nepal, also Travancore.

3. **Eulophia formosana**, *Rolfe*.

Cyrtopera formosana, *Rolfe, in Kew Bulletin* (1896), p. 198.

FORMOSA: South Cape (*A. Henry*, 1974!). Herb. Kew.

Allied to the Indian *C. bicarinata*, Lindl.

4. **Eulophia? sinensis,** *Miq. Journ. Bot. Néerl.* i. (1861) p. 91.

KWANGTUNG: Fukwing (*Krone* ex *Miquel*).

Only known to me from the original description.

5. **Eulophia nuda,** *Lindl. Gen. & Sp. Orch.* p. 180; *Hook. f. Fl. Brit. Ind.* vi. p. 5.

YUNNAN: Mengtze, grassy mountains at 5000 ft. (*A. Henry*, 11141!). Flowers pink. Herb. Kew.

North and South India and Ceylon.

6. **Eulophia yunnanensis,** *Rolfe*, n. sp.

Scapi erecti, 1–1½ ped. alti, basi vaginis oblongo-lanceolatis acutis subimbricatis tecti; racemi 6–9-flori. *Bracteæ* lanceolatæ, acutæ, ½–1¼ poll. longæ. *Pedicelli* 8–10 lin. longi. *Sepala* oblongo-lanceolata, subacuta, 10–11 lin. longa. *Petala* subsimilia. *Labellum* oblongum, subobtusum, obscure trilobum, 9 lin. longum, 4–5 lin. latum, ecalcaratum; lobi laterales minuti, obtusi; discus bicarinatus. *Columna* clavata, 6 lin. longa, subapoda.

YUNNAN: Mengtze, rocky mountains at 6000 ft. (*A. Henry*, 11125!). Flowers yellow. Herb. Kew.

This apparently belongs to the section *Cyrtopera*, but the foot of the column is nearly obsolete, by which character, together with the spurless lip, it is readily distinguished from other Asiatic species.

[*Cymbidium eburneum*, Lindl., is erroneously recorded from China, in Walp. Ann. i. p. 784.]

1. **Cymbidium ensifolium,** *Sw. in Nov. Act. Soc. Sc. Upsal.* vi. (1799) p. 77; *Lindl. Gen. & Sp. Orch.* p. 162; *Bot. Mag.* t. 1751; *Bot. Reg.* t. 1976 (var. estriatum, *Lindl.*); *Benth. Fl. Hongk.* p. 357; *Debeaux, Fl. de Shangh.* p. 62; *Kränzl. in Engl. Bot. Jahrb.* vi. (1885) p. 54 (*excl. syn.* C. sinense).

Epidendrum ensifolium, *Linn. Sp. Pl.* ed. 1, p. 954; *Smith, Spicileg.* p. 22, t. 24; *Lour. Fl. Cochinch.* p. 524; *Andr. Bot. Rep.* v. t. 344.

Limodorum ensatum, *Thunb. Fl. Jap.* p. 29.

Epidendrum sinense, *Red. Lil.* ii. t. 113 (non *Andr.*).

Cymbidium micans, *Schauer, in Nov. Act. Nat. Cur.* xix. *Suppl.* i. (1843) p. 433.

Cymbidium xiphiifolium, *Lindl. Bot. Reg.* vii. t. 529; *Gen. & Sp. Orch.* p. 162; *Reichb. f. in Bonplandia*, iii. (1855) p. 250; *Benth. Fl. Hongk.* p. 357.

CHINA: without locality (*Osbeck*); KWANGTUNG: Macao (*Meyen*!), Lienchau, Canton (*Lamont*!); HONGKONG (*Champion*), 525! *Lamont*!); LUCHU ARCHIPELAGO: Amami Osima (*Döderlein* ex *Kränzlin*). Mus. Brit.; Herb. Kew.

Cambodia, Cochinchina, and Japan.

Cymbidium xiphiifolium is only a form of *C. ensifolium* with unstriped sepals and petals, with which it is connected by intermediate forms. It is absolutely identical in other respects. But *C. sinense*, Willd., which has also been united with it by several authors, has far broader leaves, various floral differences, quite different geographical distribution, and is certainly distinct. There is no evidence of the occurrence of *C. ensifolium* proper in India.

2. **Cymbidium Faberi**, *Rolfe, in Kew Bulletin* (1896), p. 198.

CHEKIANG: Tientai Mt., 2000 ft. (*Faber*, 94!); SZECHUEN: S. Wushan (*A. Henry*, 5515!). Herb. Kew.

This has the habit of the Himalayan *C. cyperifolium*, Wall., but the flowers are quite distinct from it and from every other species known to me. Dr. Henry records the flowers as yellow.

3. **Cymbidium floribundum**, *Lindl. Gen. & Sp. Orch.* p. 162 (in note). Described from a drawing formerly in the Horticultural Society's Library.

CHINA: without precise locality; YUNNAN: Mengtze, mountain gullies, at 6000 ft. (*Hancock*, 580!). Flowers chocolate and lilac. Herb. Kew.

This species, hitherto only known from an unlocalized Chinese drawing, has now been rediscovered in Yunnan. It is allied to *C. sinense*, Willd., but has a shorter, dense raceme, of more numerous flowers.

4. **Cymbidium grandiflorum**, *Griff. Notul.* iii. p. 342; *Ic. Pl. Asiat.* t. 321; *Hook. f. Fl. Brit. Ind.* vi. p. 12.

Cymbidium Hookerianum, *Reichb. f. in Gard. Chron.* (1866) p. 7; *Batem. in Bot. Mag.* t. 5574.

Cymbidium giganteum, *Lindl. in Journ. Linn. Soc., Bot.* iii. (1859) p. 29, in part.

Cymbidium sp., *Griff. Itin. Notes*, p. 145.

YUNNAN: Mengtze (*Hancock*, 583!); wooded cliff at 5000 ft., on a tree (*A. Henry*, 11097!). Herb. Kew.

Eastern Himalaya.

5. **Cymbidium Leachianum**, *Reichb. f. in Gard. Chron.* (1878) ii. p. 106.

FORMOSA (*Corner* ex *Reichenbach*).

Only known to me from the original description.

6. **Cymbidium longifolium,** *D. Don, Prodr. Fl. Nepal.* p. 36; *Lindl. Gen. & Sp. Orch.* p. 163; *Hook. f. Fl. Brit. Ind.* vi. p. 13.

Cymbidium erythræum, *Lindl. in Journ. Linn. Soc., Bot.* iii. (1859) p. 30.

SZECHUEN: without locality (*Pratt*!); YUNNAN: Mengtze, mountains to the south-west, at 5000 ft. (*A. Henry*, 11000, 11371!), on cliffs in forest, at 6000 ft. (*A. Henry*, 11371!). Herb. Kew.

Subtropical Himalaya, from Kumaon eastwards.

7. **Cymbidium pendulum,** *Sw. in Nov. Act. Soc. Sc. Upsal.* vi. (1799) p. 73; *Lindl. Gen. & Sp. Orch.* p. 165.

Epidendrum pendulum, *Roxb. Pl. Coromand.* i. p. 35, t. 44.

Cymbidium aloifolium, *Lodd. Bot. Cab.* x. t. 967, excl. syn.; *Hook. f. Fl. Brit. Ind.* vi. p. 10, excl. syn.; *Epidendrum aloifolium*, Linn., *non* Sw.

CHINA: without locality (*Potts*!). Cult. sp. in Herb. Lindl., at Kew.

India from Nepal eastward to Assam, and southward to Tenasserim and the Andaman Islands.

This species has been much confused with *C. aloifolium*, Sw., which is limited to South-western India and Ceylon, and readily distinguished by the longer, acute front lobe of the lip. The Chinese habitat remains doubtful. Messrs. Loddiges received it from China in 1790, and Potts also sent it to the Horticultural Society, where it flowered in 1821, a specimen being preserved in Lindley's Hebarium. Besides which there are Chinese drawings in the collection at Kew. It may, however, be only a cultivated plant in China, as there are no dried specimens at Kew, and the collection of Chinese drawings contains some undoubted garden plants.

8. **Cymbidium sinense,** *Willd. Sp. Pl.* iv. p. 111; *Lodd. Bot. Cab.* i. t. 37; *Lindl. Gen. & Sp. Orch.* p. 162; *Lindl. in Journ. Linn. Soc., Bot.* iii. (1859) p. 30.

Epidendrum sinense, *Andr. Bot. Rep.* iii. t. 216; *Bot. Mag.* t. 888.

Cymbidium fragrans, *Salisb. in Trans. Hort. Soc.* i. (1812) p. 298.

Cymbidium ensifolium, *Hook. f. Fl. Brit. Ind.* vi. p. 13, in part.

CHINA: without locality (*Slater*, ex *Andrews*).

Khasia Hills and Ceylon.

This species has been confused with *C. ensifolium*, Sw., by various authors, but is easily distinguished by its much broader leaves, and larger, more numerous and differently coloured flowers. I have not seen wild Chinese specimens, but there is a fine coloured drawing from that country in the collection of drawings at Kew. It appears to be common in the Khasia Hills. The Ceylon plant has slightly narrower leaves.

9. **Cymbidium** sp.

FORMOSA: South Cape (*A. Henry*, 1352 !). Herb. Kew.

Allied to *C. pendulum*, Sw., but with leaves less than half as broad. The specimen is in fruit, and the two remaining flowers have lost their lips.

1. **Geodorum dilatatum**, *R. Br. in Ait. Hort. Kew.* ed. 2, v. p. 207; *Lodd. Bot. Cab.* t. 1797; *Bot. Reg.* t. 675; *Lindl. Gen. & Sp. Orch.* p. 175; *Fol. Orch., Geod.* p. 1; *Hook. f. Fl. Brit. Ind.* vi. p. 17.

Geodorum fucatum, *Lindl. Bot. Reg.* t. 1687; *Fol. Orch., Geod.* p. 2.

7 YUNNAN: Hsinkai, Red River, in shady woods (*A. Henry*, 11103 !), Flowers white; HONGKONG (*Ford* !). Herb. Kew.

India and Ceylon.

There has been some confusion between this and the allied species, and Lindley considered the above-cited names to represent two distinct species, though I fail to separate them. It is quite possible that plants belonging to the allied *G. purpureum*, R. Br., may be included in some of the above references.

2. **Geodorum formosanum**, *Rolfe, in Ann. Bot.* ix. (1895) p. 157.

FORMOSA: Bankinsing (*A. Henry*, 1137 !); South Cape (*A. Henry*, 1375 !). Herb. Kew.

3. **Geodorum semicristatum**, *Lindl. Fol. Orch., Geod.* p. 2.

Tropidia grandis, *Hance, in Journ. Linn. Soc., Bot.* xiii. (1872) p. 128; *Journ. Bot.* xi. (1873) p. 153.

FORMOSA: Ape's Hill, Takow (*Playfair*, n. 96 !); HONGKONG (*Hance*, 13343 !). Mus. Brit.; Herb. Kew.

Philippines.

1. **Plocoglottis ?** sp.

SZECHUEN: Mount Omei, at 4000 ft. (*Faber*, 947 !). Herb. Kew.

Apparently belongs to this genus, but all the flowers are badly eaten.

1. **Luisia Hancockii,** *Rolfe, in Kew Bulletin* (1896) p. 199.

Luisia teres, *Maxim. in Bull. Soc. Nat. Mosc.* (1879) p. 60 (non *Blume*).

CHEKIANG: western hills, Ningpo, growing on a wax-tree (*Stillingia sebifera*) beside the river—very rare (*Hancock*, 22!); on bare rocks (*Hickin*!), *Rock Lan* of the natives. Mus. Brit.; Herb. Kew.

In habit similar to *L. teres*, Blume, but more slender, the flowers smaller, and the lip differently shaped.

2. **Luisia Morsei,** *Rolfe*, n. sp.

Herba circa ½ ped. alta. *Caulis* validus. *Folia* rigida, teretia, 2–4 poll. longa; vaginæ corrugatæ. *Racemi* breves, pauciflori. *Bracteæ* late ovatæ, subacutæ, divaricatæ, rigidæ, 1 poll. longæ. *Pedicelli* circa 4 lin. longi. *Sepala* et *petala* subæqualia, oblonga, subobtusa, 3 lin. longa. *Labellum* 3½ lin. longum; hypochilium late triangulare, 2½ lin. latum; epichilium late rhomboideo-ovatum, retusum, 2½ lin. latum. *Columna* brevissima. *Capsula* clavata, 1 poll. longa.

KWANGSI: Lungchao (*Morse*, 101, herb. *A. Henry*!). Herb. Kew.

Nearest allied to *L. teretifolia*, Gaud. (at least as to the Indian plant so named), but the leaves are shorter and stouter, and the flowers much larger.

3. **Luisia teres,** *Blume, Rumphia*, iv. p. 50, in nota; *Blume, Mus. Bot. Lugd.-Bat.* i. p. 64; *Lindl. Fol. Orch., Luisia*, p. 2; *Franch. et Savat. Enum. Pl. Jap.* ii. p. 28.

Epidendrum teres, *Thunb. Fl. Jap.* p. 30; *Thunb. Ic. Pl. Jap.* i. t. 7.

Cymbidium triste, *Lindl. Gen. & Sp. Orch.* p. 167, ex parte, non *Willd.*

SZECHUEN: without locality (*Pratt*!). Herb. Kew.

Japan.

Readily distinguished by the bifurcate lip with acute lobes.

4. **Luisia teretifolia,** *Gaud. in Freyc. Voy., Bot.* p. 427, *Atlas*, t. 37; *Blume, Rumphia*, iv. p. 50, t. 194, fig. 3, t. 197, fig. D; *Lindl. Fol. Orch., Luisia*, p. 2; *Hook. f. Fl. Brit. Ind.* vi. p. 22.

HAINAN (*A. Henry*, 8686!). Herb. Kew.

India and Malaya, Marianne Islands, and perhaps New Caledonia.

The specimen is in young fruit, but the lip seems identical with that of the Indian plant. The New Caledonian locality remains doubtful, as the specimen has lost all its flowers.

5. **Luisia** sp.

FORMOSA: South Cape (*A. Henry*, 695!). Herb. Kew.

Possibly *L. teretifolia*, Gaud., but impossible to determine certainly without flowers.

[**Luisia** sp., *Benth. Fl. Hongk.* p. 358, from rocks on Mount Victoria, Hongkong (*Champion*, 526!), is without flowers, but is evidently *Sarcanthus teretifolius*, Lindl.]

1. **Diploprora Championi**, *Hook. f. Fl. Brit. Ind.* vi. p. 26; *Hook. Ic. Pl.* t. 2120.

Cottonia Championi, *Lindl. in Hook. Kew Journ. Bot.* vii. (1855) p. 35; *Journ. Linn. Soc., Bot.* iii. (1859) p. 39; *Benth. Fl. Hongk.* p. 357.

Luisia bicaudata, *Thw. Enum. Pl. Zeyl.* p. 302.

Vanda bicaudata, *Thw., l. c.* p. 429.

Sarcanthus rostratus, *Reichb. f. in Seem. Bot. Herald*, p. 419, ? non *Lindl.*

FORMOSA: Bankinsing mountains (*A. Henry*, 898, 1606!); HONGKONG (*Champion*, 227! *Harland*, 438!). Mus. Brit.; Herb. Kew.

Bhotan, Khasia, Tenasserim, and Ceylon.

The *Sarcanthus* above cited is doubtfully included by Bentham, but there is no specimen so named in Hance's herbarium.

1. **Phalænopsis Aphrodite**, *Reichb. f. in Hamb. Gartenz.* 1862, p. 35; *Xen. Orch.* ii. p. 6.

Phalænopsis amabilis, *Lindl. Bot. Reg.* 1838, t. 34; *Bot. Mag.* t. 4297, non *Blume.*

FORMOSA: South Cape (*A. Henry*, 1705!). Herb. Kew.

Philippines.

1. **Doritis Wightii**, *Benth. in Benth. et Hook. f. Gen. Pl.* iii. p. 574; *Hook. f. Fl. Brit. Ind.* vi. p. 32.

Phalænopsis Wightii, *Reichb. f. in Bot. Zeit.* xx. (1862) p. 214.

Aërides latifolium, *Thw. Enum. Pl. Zeyl.* p. 429.

HAINAN: Hongtai, on trees (*Ford*, 475!). Herb. Kew.

India and Ceylon.

1. **Sarcochilus auriferus**, *Rolfe.*

Dendrobium auriferum, *Lindl. Gen. & Sp. Orch.* p. 83; *Bot. Reg.* xx., *Misc.* p. 59.

CHINA: without locality (*Reeves*!). Herb. Kew.

Based on a drawing formerly in the possession of the Horticultural Society. According to a copy in Lindley's Herbarium it is evidently a *Sarcochilus* of the section *Dendrocolla*, though

I am unable to identify it with any dried specimen, or indeed to find any other evidence about it.

2. **Sarcochilus hainanensis,** *Rolfe, in Kew Hand-list, Orch.* p. 201; *Bot. Mag.* t. 7489; *Rolfe, in Kew Bulletin* (1896), p. 199.

HAINAN (*Ford*, 572!). Flowered also at Kew in July 1894, the plant having been received from the Hongkong Botanic Garden, with other Hainan Orchids. Herb. Kew.

Allied to *S. Arachnites*, Reichb. f., but the side-lobes of the lip are more truncate and the front lobe distinctly triangular. The flowers are light yellow, except the front lobe of the lip, which is white, and a few buff markings which occur in the throat and on the sides of the lip.

3. **Sarcochilus luniferus,** *Benth. ex Hook. f. Bot. Mag.* t. 7044; *Hook f. Fl. Brit. Ind.* vi. p. 37.

Thrixspermum luniferum, *Reichb. f. in Gard. Chron.* (1868) p. 786.

YUNNAN: Mengtze, south-east mountain forests, at 5000 ft., on trees (*A. Henry*, 11129!). Herb. Kew. — ?

1. **Aërides odoratum,** *Lour. Fl. Cochinch.* p. 525; *Bot. Mag.* t. 4139; *Hook. f. Fl. Brit. Ind.* vi. p. 47.

CHINA: without locality (ex *Loureiro*).

Loureiro gives China as a habitat of this species, but I have seen no specimen from there.

India, Malaya, and Cochin China.

1. **Renanthera coccinea,** *Lour. Fl. Cochinch.* p. 521; *Lindl. Gen. & Sp. Orch.* p. 217; *Bot. Reg.* t. 1131; *Bot. Mag.* t. 2997–8; *Paxt. Mag. Bot.* iv. p. 49, with plate; *Hook. f. Fl. Brit. Ind.* vi. p. 48.

CHINA: without locality (*Millett*!); HAINAN: 20 miles north of Hoihow, on rocks (*A. Henry*!). Herb. Kew.

Tenasserim and Cochin China.

1. **Vanda concolor,** *Blume, Rumphia*, iv. p. 49, in nota; *Lindl. in Paxt. Fl. Gard.* ii. p. 20; *Lindl. Fol. Orch., Vanda*, p. 3; *Sallier, in Orchidophile*, 1887, p. 144, cum ic.

Vanda Roxburghii, var. unicolor, *Hook. Bot. Mag.* t. 3416.

Vanda furva, *Lindl. Bot. Reg.* xxx., *Misc.* p. 39, ex parte.

CHINA: without locality (*Loddiges*!); YUNNAN: on lofty trees in a hot rocky glen at Mengtze (*Hancock*, 117!); woods at 4000–4700 ft. (*A. Henry*, 11092!). Mus. Brit.; Herb. Kew.

The precise locality of this plant is not known, but there are several Chinese drawings of it in the Kew collection. It has been confused with the Indian *V. Roxburghii*, R. Br., and the Moluccan *V. furva*, Lindl.

2. **Vanda hainanensis**, *Rolfe, in Kew Bulletin* (1896), p. 199.

HAINAN (*B. C. Henry*, 37 !). Herb. Kew.

A very interesting species, belonging to the section *Anota*, which only contains two others, namely, the Indian *V. densiflora*, Lindl., and the Philippine *V. violacea*, Lindl. According to the Rev. B. C. Henry, the flowers are white and purple, and fragrant.

1. **Saccolabium hainanense**, *Rolfe, in Kew Bulletin* (1895), p. 284.

HAINAN (*B. C. Henry* !). Herb. Kew.

Flowered at Kew in March, 1895.

1. **Acampe multiflora**, *Lindl. Fol. Orch., Acampe*, p. 1; *Reichb. in Walp. Ann.* vi. p. 872; *Benth. Fl. Hongk.* p. 358.

Vanda multiflora, *Lindl. Collect. Bot.* t. 38.

CHINA: without locality (*Reeves* !); HONGKONG (*Champion*, 528! *Lamont*, 764! *Hance*, 1334!). Mus. Brit.; Herb. Kew.

Allied to the Indian *A. longifolia*, Lindl.

1. **Sarcanthus cerinus**, *Rolfe*.

Cleisostoma cerinum, *Hance, in Journ. Bot.* xx. (1882) p. 359.

KWANGTUNG: Lofaushan (*Faber* !). Mus. Brit.

The spur has the longitudinal plate of *Sarcanthus*, as is also the case with the two following species.

2. **Sarcanthus elongatus**, *Rolfe*, n. sp.

Caules 1 ped. longi v. ultra. *Folia* teretia, gracilia, 3½–5½ poll. longa. *Racemi* pauce ramosi, 8–9 poll. longi, multiflori. *Bracteæ* subulato-lanceolatæ, acutæ, divaricatæ, ¾–1 lin. longæ. *Pedicelli* 3 lin. longi. *Sepalum* posticum ovatum, subobtusum, 1 lin. longum; lateralia oblique ovato-oblonga, subacuta, 1½ lin. longa. *Petala* lineari-oblonga, subacuta, 1¼ lin. longa. *Labellum* trilobum; lobi laterales triangulares, subobtusi; lobus intermedius triangulari-ovatus, acutus, 1¼ lin. longus; discus subcarnosus; calcar late saccatum, obovoideum, 1½ lin. longum. *Columna* ¾ lin. longa.

HAINAN (*Ford*, 573 !). Flowers lilac. Herb. Kew.

Allied to *S. filiformis*, Lindl., but markedly different in the details of the lip.

3. **Sarcanthus Fordii,** *Rolfe.*

Cleisostoma Fordii, *Hance, in Journ. of Bot.* xiv. (1876) p. 45.

HONGKONG (*Ford* !). Mus. Brit.

4. **Sarcanthus formosanus,** *Rolfe, in Kew Hand-list, Orch.* p. 201.

Cleisostoma formosana, *Hance, in Journ. Bot.* xxii. (1884) p. 364.

FORMOSA (*Oldham*, 557 !); near Tamsui (*Ford* !); Kelung (*Ford*, 93 !). Mus. Brit.; Herb. Kew.

5. **Sarcanthus hongkongensis,** *Rolfe, in Kew Hand-list, Orch.* p. 201 (name only); *Kew Bulletin* (1898), p. 198.

HONGKONG (*Ford* !). Herb. Kew.

Allied to the Indian *S. filiformis*, Lindl. The flowers are pale lilac, with the column, the side-lobes of the lip, and base of the front lobe bright purple.

6. **Sarcanthus paniculatus,** *Lindl. in Bauer Ill. Orch. Pl., Genera*, t. 9; *Lindl. Gen. & Sp. Orch.* p. 233.

Aërides paniculatum, *Ker, in Bot. Reg.* iii. t. 220.

Vanda paniculata, *R. Br. in Bot. Reg.* vi. sub t. 506 et *Notis ad calcem vol.* [p. 3].

CHINA: without locality (*Banks* ex *Lindley*). Cultivated specimens in Herb. Kew.

Introduced by Sir Joseph Banks, and flowered in his collection about the year 1817. Living plants have since been received at Kew from China, but we are still ignorant of its precise habitat.

7. **Sarcanthus rostratus,** *Lindl. Collect. Bot.* p. 39, fig. B; *Bot. Reg.* t. 981.

Vanda recurva, *Hook. Exot. Fl.* iii. t. 187.

Vanda rostrata, *Lodd. Bot. Cab.* t. 1008.

CHINA: without locality, ex *Lindley*. Cultivated specimens in Herb. Kew.

Received from China by the Horticultural Society of London in 1821. It is quite distinct from the Indian *Sarcanthus oxyphyllus*, Wall., with which Lindley (*Bot. Reg.* xxx. *Misc.* p. 58) confounded it.

8. **Sarcanthus succisus,** *Lindl. Bot. Reg.* xii. t. 1014.

CHINA: without locality (*Parks* ex *Lindley*).

Brought from China for the Horticultural Society of London by Mr. John Damper Parks, in 1824. I have not seen a specimen.

9. **Sarcanthus teretifolius**, *Lindl. Gen. & Sp. Orch.* p. 234; *Bot. Mag.* t. 3571; *Hance, in Journ. Linn. Soc., Bot.* xiii. (1872) p. 127; *Belg. Hort.* x. p. 129, t. 9, fig. 3.

Vanda teretifolia, *Lindl. Collect. Bot.* t. 6; *Bot. Reg.* viii. t. 676.

Luisia sp., *Lindl. Fol. Orch., Luisia,* p. 1; *Benth. Fl. Hongk.* p. 358.

CHINA: without locality (*Brooks*); HONGKONG (*Hance,* 833! *Lamont,* 764 A! *Ford,* 568!). Mus. Brit.; Herb. Kew.

Introduced from China by W. Brooks, and flowered in the collection of Mr. Cattley, at Barnet, about the year 1820.

There can be no doubt that the *Luisia* above cited belongs here, as Hance suspected. Champion's specimen is flowerless, but the roots are produced all the way up the stem, as in this, not as in *Luisia teres,* Blume; while the habit of the plant and the texture and striæ of the leaf-sheaths are equally sufficient to settle the matter, in spite of the general resemblance of the two plants. Champion's and Hance's specimens were gathered at the same spot, while the *Luisia* is not known from Hongkong.

1. **Cleisostoma virginale**, *Hance, in Journ. Bot.* xv. (1877) p. 38.

Appendicula sp., *Hance, in Journ. Linn. Soc., Bot.* xiii. (1872) p. 128 (species secunda).

HONGKONG (*Bowring*! *Ford*!). Mus. Brit.; Herb. Kew.

1. **Ornithochilus fuscus**, *Wall. ex Lindl. Gen. & Sp. Orch.* p. 242; *Hook. f. Fl. Brit. Ind.* vi. p. 76.

Ornithochilus eublepharon, *Hance, in Journ. Bot.* xxii. (1884) p. 364.

Aërides difforme, *Wall. ex Lindl. Gen. & Sp. Orch.* 1884, p. 242.

Aërides Hystrix, *Lindl. in Journ. Linn. Soc., Bot.* iii. (1859) p. 42 (non *Gen. & Sp. Orch.*).

KWANGTUNG: Lofaushan (*Ford,* 92!). Mus. Brit. Herb. Kew.

Tropical Himalaya and Tennasserim.

I can detect no difference between the Chinese and Indian plants.

1. **Angræcum falcatum**, *Lindl. Gen. & Sp. Orch.* p. 237 (in syn.); *Benth. et Hook. f. Gen. Plant.* iii. p. 583.

Orchis falcata, *Thunb. Fl. Jap.* p. 26.

Limodorum falcatum, *Thunb. Ic. Pl. Japon.* dec. 1, t. 6; *Bot. Reg.* t. 283; *Bot. Mag.* t. 2097.

Œceoclades falcata, *Lindl. Gen. & Sp. Orch.* p. 237; *S. Moore, in Journ. Bot.* xv. (1878) p. 138; *Franch. et Savat. Enum. Pl. Japon.* ii. p. 28 *excl. syn.* Aërides japonicum).

Aërides Thunbergii, *Miq. Ann. Mus. Bot. Lugd.-Bat.* ii. p. 205.

CHEKIANG: Hangchau (*Moule*!); Ningpo (*Everard*!); Ningkongjao, near Ningpo (*Medhurst*!). Herb. Kew.

Also found in Japan.

There has been some confusion with this species in the books, but the above synonymy I believe is correct.

1. **Appendicula bifaria,** *Lindl.* ex *Benth. in Kew Journ. Bot.* vii. (1855) p. 35; *Benth. Fl. Hongk.* p. 358; *Reichb. f. in Walp. Ann.* vi. p. 893; *Hook. f. Fl. Brit. Ind.* vi. p. 82.

HONGKONG (*Champion*, 282! *Ford*! *Bowring*!). Mus. Brit.; Herb. Kew.

India, Tenasserim, and Singapore.

1. **Thelasis hongkongensis,** *Rolfe, in Kew Bulletin* (1896), p. 199.

Thelasis pygmæa, *Hance, in Journ. Linn. Soc., Bot.* xiii. (1872) p. 127, non *Lindl.*

HONGKONG (*Hance*, 1287! *Ford*, 13!). Mus. Brit.; Herb. Kew.

This is nearly allied to the Philippine *T. triptera*, Reichb. f., which, however, has larger flowers, and the sheathing bracts of the scape loose and twice as broad. The Indian *T. pygmæa*, Lindl., to which it has been doubtfully referred, is still more distinct.

ORCHIDACEÆ: NEOTTIEÆ.

1. **Galeola Faberi,** *Rolfe, in Kew Bulletin* (1896), p. 200.

SZECHUEN: Mount Omei, 7000 ft. alt. (*Faber*!). Herb. Kew.

A very distinct species allied to the Himalayan *G. Lindleyana*, Reichb. f., but with far narrower segments, a much shorter ovary, and quite different aspect generally.

1. **Vanilla** sp.

FORMOSA: Bankinsing (*A. Henry*, 479!). Herb. Kew.

1. **Tropidia angulosa,** *Blume, Coll. Orch. Archip. Ind.* p. 122; *Hook. f. Fl. Brit. Ind.* vi. p. 92.

Cnemidia angulosa, *Lindl. Gen. & Sp. Orch.* p. 463.
Decaisnea angulosa, *Lindl. in Wall. Cat.* n. 7388.
Tropidia Govindooi, *Blume, Coll. Orch. Archip. Ind.* p. 122.
Govindooia nervosa, *Wight, Ic.* vi. t. 2090.

Tropidia semilibera, *Blume, Coll. Orch. Archip. Ind.* p. 122.

Cnemidia semilibera, *Lindl. Gen. & Sp. Orch.* p. 463.

FORMOSA: Ape's Hill, Takow, in dark situations (*A. Henry*, 1905). Flowers white. Herb. Kew.

India and Philippines.

2. **Tropidia formosana,** *Rolfe, in Ann. of Bot.* ix. (1895) p. 158.

FORMOSA: Bankinsing (*A. Henry*, 1573!). Herb. Kew.

3. **Tropidia hongkongensis,** *Rolfe.*

Tropidia curculigoides, *Benth. Fl. Hongk.* p. 359, excl. syn., non *Lindl.*

HONGKONG (*Champion*, 522!). Herb. Kew.

Bentham unites both this and the Philippine *T. septemnervis*, Reichb. f. (*Ptychochilus septemnervis*, Meyen), with the Himalayan *T. curculigoides*, Lindl., and in a note further confounds it with species from Malaya and Ceylon. The inflorescence is not in good condition, but the leaves are distinctly narrower than in both the Himalayan and Philippine plants.

[*Tropidia grandis*, Hance, is *Geodorum semicristatum*, Lindl.]

1. **Neottia camtschatica,** *Spreng. Syst. Veg.* iii. p. 707; *Ledeb. Fl. Ross.* iv. p. 82.

Ophrys camtschatea, *Linn. Sp. Pl.* ed. 1, p. 948.

Epipactis camtschatea, *Sw. in Vet.-Acad. Nya Handl. Stockh.* xxi. (1800) p. 232.

Serapias camtschatea, *Steud. Nomencl. Bot.* ed. 1, p. 766.

Neottia kamtschatica, *Lindl. Gen. & Sp. Orch.* p. 458.

Neottia camtschatea, *Reichb. Ic. Fl. Germ.* xiii–xiv. p. 146, t. 478. fig. 1, 2.

KANSUH: Tangut (*Przewalski*!). Herb. Kew.

Siberia.

2. **Neottia micrantha,** *Lindl. Gen. & Sp. Orch.* p. 458; *Ledeb. Fl. Ross.* iv. p. 82.

HUPEH (*A. Henry*, 6877! 6877 *a*!). Herb. Kew.

Siberia.

A rather anomalous species.

1. **Listera grandiflora,** *Rolfe, in Kew Bulletin* (1896), p. 200.

HUPEH: Fang (*A. Henry*, 6876!); SZECHUEN: Mount Omei, in dark damp place at 8000–9000 ft. (*Faber*, n. 948!). Herb. Kew.

A most distinct species, the largest-flowered one in the genus.

2. **Listera puberula**, *Maxim. in Bull. Acad. Pétersb.* xxix. (1884) p. 204; *Mél. Biol.* xi. p. 843.

KANSUH: Tangut (*Przewalski* !). Herb. Kew.

1. **Spiranthes australis**, *Lindl. Bot. Reg.* x. sub t. 823; *Gen. & Sp. Orch.* p. 464; *Swinhoe, List Pl. Formosa*, p. 4; *Hook. f. Fl. Brit. Ind.* vi. p. 102; *Franch. Pl. David.* i. p. 295; *Palibin, in Act. Hort. Petrop.* xiv. (1895) p. 140.

Aristotelea spiralis, *Lour. Fl. Cochinch.* p. 522.

Neottia sinensis, *Pers. Syn. Pl.* ii. p. 511.

Neottia australis, *R. Br. Prodr.* p. 319.

Spiranthes pudica, *Lindl. Collect. Bot.* t. 30.

Neottia australis β chinensis, *Edwards, in Bot. Reg.* t. 602.

Spiranthes amœna, *Bunge, Enum. Pl. Chin. Bor.* p. 63.

Spiranthes australis, var. pudica, *Lindl. Gen. & Sp. Orch.* p. 465; *Benth. in Hook. Kew Journ. Bot.* vii. (1855) p. 38; *Benth. Fl. Hongk.* p. 360; *Miq. in Journ. Bot. Néerl.* i. (1861) p. 91.

Gyrostachys australis, *Blume, Coll. Orch. Archip. Ind.* p. 128, t. 37, fig. 3, t. 38, fig. 3.

CHILHI (*Putjata & Borodowsky*, ex *Palibin*); COREA (*Wilford*, 923 !); KANSUH (*Przewalski* !); SZECHUEN (*Pratt*, 626 !); YUNNAN (*Hancock*, 516 !); HONGKONG (*Champion*, 268 ! *Wilford*, 397 ! *Urquhart* ! *Wright*, 526 !); FORMOSA (*Oldham*, 562 ! *Swinhoe* !); LUCHU ARCHIPELAGO (*Beechey* ! *Wright*, 335–338 !). Also various other collectors. Mus. Brit.; Herb. Kew.

This is probably the most widely distributed Orchid known, as it extends from Jekaterinenburg, on the southern part of the Ural Mountains, and Afghanistan on the west, to Ceylon and South India, Japan, Java, Australia, and New Zealand.

2. **Spiranthes exigua**, *Rolfe, in Kew Bulletin* (1896), p. 200.

HUPEH (*A. Henry*, 6585 !). Herb. Kew.

A curious little leafless plant, not nearly allied to any other Old World species. The minute hastate lobes of the lip are easily overlooked, unless very carefully searched for; and the rostellum is curiously recurved at the apex. A single specimen is at present known.

1. **Physurus chinensis**, *Rolfe, in Kew Bulletin* (1896), p. 200.

KWANGTUNG: Lienchow River (*Ford*, 134, 240 !). Herb. Kew.

It is also cultivated at the Hongkong Botanic Garden and at Kew.

1. **Anœctochilus Roxburghii,** *Lindl. Gen. & Sp. Orch.* p. 499; *Blume, Coll. Orch. Archip. Ind.* p. 50, t. 12 B, fig. 2; *Hook. f. Fl. Brit. Ind.* vi. p. 95; *Hance, in Journ. Bot.* xxv. (1887) p. 13.

Anœctochilus sp., *Hance, in Journ. Bot.* xx. (1882) p. 39.

CHEKIANG: Ningpo (*Hancock*!); FORMOSA: Bankinsing Mountains (*A. Henry*, 1626!); KWANGTUNG: North-west River (*Ford*, 253!), Lofaushan Mts. (*Ford*!). Mus. Brit.; Herb. Kew.

Tropical Himalaya.

2. **Anœctochilus Tashiroi,** *Maxim. in Bull. Acad. St. Pétersb.* xxxi. (1887) p. 103; *Mél. Biol.* xii. p. 546.

LUCHU ARCHIPELAGO (*Tashiro* misit *Tanaka*).

Only known to me from the original description.

1. **Vrydagzynea nuda,** *Blume, Coll. Orch. Archip. Ind.* p. 74, t. 20, fig. 3; *Hance, in Journ. Bot.* xxiii. (1885) p. 247.

HONGKONG (*Ford*! ex hb. *Hance*, 22306!). Mus. Brit.

Java.

This agrees remarkably well with Blume's figure, though I do not feel quite certain of the determination.

1. **Zeuxine formosana,** *Rolfe, in Ann. Bot.* ix. (1895) p. 158.

FORMOSA: South Cape (*A. Henry*, 644!). Herb. Kew.

2. **Zeuxine sulcata,** *Lindl. Gen. & Sp. Orch.* p. 485; *Journ. Linn. Soc., Bot.* i. (1857) p. 186; *Benth. Fl. Hongk.* p. 360; *Hook. f. Fl. Brit. Ind.* vi. p. 106.

Zeuxine emarginata, *Lindl. Gen. & Sp. Orch.* p. 485; *Benth. in Kew Journ. Bot.* vii. (1855) p. 38.

Zeuxine Tripleura, *Lindl. in Journ. Linn. Soc., Bot.* i. (1857) p. 186; *Hance, in Journ. Linn. Soc., Bot.* xiii. (1872) p. 128.

Tripleura pallida, *Lindl. Gen. & Sp. Orch.* p. 452.

FORMOSA: near Tamsui (*Walters*!), Ape's Hill, Taiwan (*Playfair*, 364!); HUPEH: Fang (*A. Henry*, 6589!); HONGKONG (*Champion*, 524! *Wilford*, 284! *Hance*!). Mus. Brit.; Herb. Kew.

Afghanistan, widely dispersed in India, to Cochinchina, South Japan, Java, and the Philippines.

1. **Cheirostylis chinensis,** *Rolfe, in Ann. Bot.* ix. (1895) p. 158.

FORMOSA: South of island (*A. Hance*, 390!), summit of Ape's Hill, Takow (*A. Henry*, 320!). Herb. Kew.

2. **Cheirostylis flabellata,** *Wight, Ic. Pl. Ind. Or.* v. p. 16, t. 1727; *Lindl. in Journ. Linn. Soc., Bot.* i. (1857) p. 187, *excl. syn.* Griff.; *Hook. f. Fl. Brit. Ind.* vi. p. 105.

Goodyera flabellata, *A. Rich. in Ann. Sc. Nat.* sér. 2, xv. (1841) p. 79, t. 12.

HONGKONG (*Ford*, 130!). Herb. Kew.

North and South India.

3. **Cheirostylis yunnanensis,** *Rolfe, in Kew Bulletin* (1896), p. 201.

YUNNAN: shady rocky places at Mengtze (*Hancock*, 25!), Flowers white; very rare; Woods at 4600 ft., in shade, on stones (*A. Henry*, 10423!). Herb. Kew.

Habit of *C. flabellata*, Wight, but with much larger flowers and petals much longer than the sepals.

1. **Odontochilus Elwesii,** *C. B. Clarke, in Hook. f. Fl. Brit. Ind.* vi. p. 100; *Hook. Ic. Pl.* t. 2167.

SZECHUEN: Mount Omei, 5000 ft. (*Faber*, 939!). Herb. Kew.

Sikkim, Assam, Upper Burma.

The Chinese plant has slightly larger flowers, but the whole plant is similar in other respects to the Indian one.

2. **Odontochilus yunnanensis,** *Rolfe*, n. sp.

Rhizoma repens. *Caulis* erectus, 4–8 poll. longus. *Folia* petiolata, elliptico-oblonga, acuta, 2–3 poll. longa, 9–18 lin. lata; petiolus 9–10 lin. longus, basi in vaginam spathaceam amplexicaulem expansus. *Racemus* 2–4 poll. longus, multiflorus. *Bracteæ* lanceolatæ, acutæ, 6–8 lin. longæ. *Pedicelli* 4–5 lin. longi. *Sepalum* posticum ovato-oblongum, subobtusum, 3 lin. longum; lateralia patentia, elliptico-oblonga, obtusa, 4 lin. longa. *Petala* oblique semiovata, subobtusa, cum sepalo postico in galeam conniventia. *Labellum* 7 lin. longum, basi angustum, apice in laminam bilobam dilatatum; lobi oblongi, subdivaricati; unguis utrinque appendiculis linearibus 3–4 instructus, basi in sacculum globosum 1½ lin. latum dilatatus. *Columna* 2 lin. longa.

YUNNAN: Mengtze, mountain forests, at 5000 ft. (*A. Henry*, 11110!). Flowers yellow. Herb. Kew.

Allied to *O. Clarkei*, Hook. f., a native of Sikkim, but differing in numerous details.

1. **Myrmechis chinensis,** *Rolfe*, n. sp.

Caules graciles, repentes, ascendentes. *Folia* orbicularia, obtusa v. apiculata, 1½–2 lin. lata; petiolus 1 lin. longus, basi in vaginam tubulosam brevem dilatatus. *Scapus* terminalis, 1–1½ poll. longus, sparse pilosus, apice 2–3-florus. *Bracteæ* oblongo-lanceolatæ, acutæ v. apiculatæ, 1½ lin. longæ. *Pedicelli* 1½–2 lin. longi. *Sepala* et *petala* ovato-oblonga, apiculata, 2 lin. longa. *Labellum* basi saccatum, limbus oblongus, obtusus, 2 lin. longus, apice vix dilatatus; calli oblongi, obtusi. *Columna* generis.

HUPEH (*A. Henry*, 6841!). Herb. Kew.

Allied to *M. japonica*, Rolfe (*M. gracilis*, Franch. et Savat. Enum. Pl. Jap. ii. p. 39 (non Blume); *Rhamphidia japonica*, Reichb. f. in Bot. Zeit. xxvi. (1878) p. 39), but the leaves and flowers considerably smaller, and the lip not dilated at the apex.

1. **Hæmaria discolor,** *Lindl. Gen. & Sp. Orch.* p. 490; *Benth. Fl. Hongk.* p. 361; *Hook. f. Fl. Brit. Ind.* vi. p. 101, in part.

Goodyera discolor, *Ker, in Bot. Reg.* iv. t. 271; *Bot. Mag.* t. 2055; *Lodd. Bot. Cab.* ii. t. 143.

Ludisia discolor, *A. Rich. in Dict. Clas. Nat.* vii. p. 437; *Blume, Orch. Archip. Ind.* p. 113, t. 42, fig. D.

Ludisia Furetii, *Blume, Orch. Archip. Ind.* p. 114, t. 34, fig. 3.

Ludisia odorata, *Blume, Orch. Archip. Ind.* p. 114, t. 34, fig. 2.

KWANGTUNG (*Furet*); HONGKONG (*Champion*, 274! *Wright*, 527! *Hance*, 1168! *Lamont*, 771!). Mus. Brit.; Herb. Kew.

Cochinchina.

This is *Goodyera discolor*, which has been cultivated in gardens ever since 1818, and was at first reported to have come from Brazil. The leaves are uniformly deep dull purplish green above and reddish purple beneath. Recently one or more Malayan species with silvery veined leaves have been cited as synonymous, though they appear to represent distinct but closely allied species. *Hæmaria argyroneura*, Miq. Choix Pl. t. 16, cited in the Flora of British India, vi. p. 101, is, however, *Macodes argyroneura*, Rolfe, in Kew Bulletin (1896), p. 47.

1. **Goodyera foliosa,** *Benth. ex Hook. f. in Fl. Brit. Ind.* vi. p. 113, *excl. syn.* Griff.

Georchis foliosa, *Lindl. Gen. & Sp. Orch.* p. 496.

Goodyera spp. nn. 10, 11, *Griff. Notul.* iii. pp. 394, 396; *Ic. Pl. Asiat.* t. 346, fig. 1.

KWANGTUNG: Lofaushan (*Ford*, 328!). Herb. Kew.

Sikkim to Burma and Perak.

2. **Goodyera formosana,** *Rolfe, in Ann. Bot.* ix. (1895) p. 159.

FORMOSA: Bankinsing Mountains (*A. Henry*, 409!). Herb. Kew.

3. **Goodyera Henryi,** *Rolfe, in Kew Bulletin* (1896), p. 201.

HUPEH: Ichang (*A. Henry*, 6878!). Herb. Kew.

Allied to the Indian *G. foliosa*, Lindl.

4. **Goodyera nebularum,** *Rolfe.*

Cystorchis ? nebularum, *Hance, in Journ. Bot.* xxi. (1883) p. 232.

KWANGTUNG: in summis montibus Lofaushan, Canton (*Faber*; hb. *Hance*, 22147!). Mus. Brit.

This proves on examination to be a *Goodyera.*

5. **Goodyera procera,** *Hook. Exot. Flora*, i. t. 39; *Lindl. Gen. & Sp. Orch.* p. 493; *Benth. Fl. Hongk.* p. 360; *Hook. f. Fl. Brit. Ind.* vi. p. 111.

Neottia procera, *Ker, in Bot. Reg.* viii. t. 639.

FORMOSA: Tamsui (*Oldham*, 558!), Bankinsing (*A. Henry*, 165, 1826!); KWANGTUNG: Macao (*Vachell*, 79!); HONGKONG (*Champion*, 267! *Wilford*, 375! *Hance*, 533! *Lamont*!); LUCHU ARCHIPELAGO (*Wright*, 339!). Mus. Brit.; Herb. Kew.

India and Java.

6. **Goodyera repens,** *R. Br. in Ait. Hort. Kew.* ed. 2, v. p. 198; *Lindl. Gen. & Sp. Orch.* p. 492; *Nyman, Conspect. Fl. Europ.* p. 689; *Boiss. Fl. Orient.* v. p. 90; *Ledeb. Fl. Ross.* iv. p. 86; *Franch. et Savat. Enum. Pl. Jap.* ii. p. 38 (*excl. syn.*) et p. 520; *Hook. f. Fl. Brit. Ind.* vi. p. 111; *Macoun, Cat. Pl. Canad.* ii. p. 9; *A. Gray, Bot. N. U. States*, ed. 5, p. 503; *Chapm. Fl. S. U. States*, p. 463.

KIANGSU: Tangut (*Przewalski*!); HUPEH: Hsingshan (*A. Henry*, 6513!). Herb. Kew.

A very widely diffused species, ranging from Britain and Portugal to the Himalayas, Japan, and North-eastern Asia, and from Canada along the Eastern United States to the mountains of North Carolina.

7. **Goodyera Schlechtendaliana,** *Reichb. f. in Linnæa,* xxii. (1849) p. 861; *Franch. et Savat. Enum. Pl. Jap.* ii. p. 38; *Somoku Zusetsu,* xviii. t. 79.

Goodyera secundiflora, *Griff. Notul.* iii. p. 394; *Ic. Pl. Asiat.* iii. t. 346, fig. 1; *Lindl. in Journ. Linn. Soc., Bot.* i. (1857) p. 182; *Hook. f. Fl. Brit. Ind.* vi. p. 113.

Goodyera japonica, *Blume, Coll. Orch. Archip. Ind. et Jap.* p. 38, t. 9, fig. 1, t. 11, fig. C.

Goodyera similis, *Blume, Coll. Orch. Archip. Ind. et Jap.* p. 39, t. 9, fig. 2, t. 11, fig. D.

CHEKIANG (*Fortune*!): woods on top of hills at 3000 ft. (*Hickin*!), Ningpo Mts., under bamboos (*Faber,* 199!); HUPEH: Nanto and mountains to northward (*A. Henry,* 2605!), without precise locality (*A. Henry,* 6133, 7580!). Herb. Kew.

Northern India, Japan.

The above all appear to me to belong to one variable species, which sometimes has the leaves variegated, at others uniformly green.

8. **Goodyera velutina,** *Maxim. in Regel's Gartenflora,* xvi. (1867) p. 38, t. 533, fig. 1; *Fl. des Serres,* t. 1779; *Franch. et Savat. Enum. Pl. Jap.* ii. p. 38.

HUPEH: Fang (*A. Henry,* 6638, 7682!). Herb. Kew.

Japan.

1. **Microtis parviflora,** *R. Br. Prodr.* p. 321; *Lindl. Gen. & Sp. Orch.* p. 395; *Benth. Fl. Austral.* vi. p. 347; *Hance, in Journ. Bot.* xvii. (1879) p. 15.

FORMOSA: Tamsui (*Oldham,* 561!); LUCHU ARCHIPELAGO (*Wright,* 340!). Mus. Brit.; Herb. Kew.

Australia, New Caledonia, Java, and Japan.

1. **Arethusa sinensis,** *Rolfe,* n. sp.

Tuber subglobosum, parvum. *Folia* radicalia, 2-3, subsessilia, lanceolata v. elliptico-lanceolata, acuta v. acuminata, 2-4 poll. longa, ⅓-1 poll. lata. *Scapus* erectus, 4-6 poll. longus, 2-3-florus, glaber. *Bracteæ* oblongo-lanceolatæ, acutæ, 2-3½ lin. longæ. *Pedicelli* 3-4½ lin. longi. *Sepala* lanceolato-linearia, subacuta, 5-6 lin. longa. *Petala* lanceolata, acuta, 5-6 lin. longa. *Labellum* 5-6 lin. longum, basi columnæ breviter adnatum, et subsaccatum, limbus obscure trilobus, 3 lin. latus, apice

apiculatus, margine fimbriato-denticulatus, discus trilamellatus, lamellæ fimbriatæ. *Columna* clavata, 4 lin. longa.

YUNNAN: Mengtze (*A. Henry*, sine numero!). Herb. Kew.

An interesting addition to the genus, most resembling the section *Crybe* in habit.

1. **Pogonia Fordii**, *Hance, in Journ. Bot.* xxiii. (1885) p. 247.

KWANGTUNG: Lofaushan (*Ford*!). Mus. Brit.

2. **Pogonia ophioglossoides**, *Ker, in Bot. Reg.* ii. t. 148; *Nutt. Gen. N. Amer. Pl.* ii. p. 192; *Hook. Exot. Fl.* i. t. 70; *Lindl. Gen. & Sp. Orch.* p. 413; *Hance, in Journ. Bot.* xxiii. (1885) p. 247; *Franch. et Savat. Enum. Pl. Jap.* ii. p. 34.

Pogonia similis, *Blume, Coll. Orch. Archip. Ind. et Jap.* p. 148, t. 32, fig. 4, et t. 54, fig. A.

Pogonia japonica, *Reichb. f. in Linnæa*, xxv. (1852) p. 228.

HUPEH: Ichang (*A. Henry*, 1777, 4044!), Chienshih (*A. Henry*, 5811!); KWANGTUNG: Lofaushan at 2500 ft. (*B. C. Henry*!); COREA: Chemulpo (*Carles*, 52!), Soul Mountains (*Carles*, 134!). Mus. Brit.; Herb. Kew.

Japan and Eastern North America.

3. **Pogonia pulchella**, *Hook. f. Bot. Mag.* t. 6851.

HONGKONG (*Ford*!). Herb. Kew.

4. **Pogonia yunnanensis**, *Finet, in Bull. Soc. Bot. Fr.* xliv. (1897) p. 419, t. 13, figs. K–Z.

YUNNAN: west of Talifou, between the Salween and Mekong Rivers (*Prince Henri of Orleans*, ex *Finet*).

1. **Didymoplexis pallens**, *Griff. in Calc. Journ. Nat. Hist.* iv. (1844) p. 383, t. 17; *Hemsl. in Journ. Linn. Soc., Bot.* xx. (1883) p. 308, t. 28; *Hook. f. Fl. Brit. Ind.* vi. p. 122.

Leucorchis sylvatica, *Blume, Mus. Bot.* i. p. 31; *Coll. Orch. Arch. Ind. et Jap.* p. 147, with fig.

Apetalon minutum, *Wight, Ic.* t. 1758.

Arethusa ecristata, *Griff. Notul.* iii. p. 378; *Ic. Pl. Asiat.* tt. 343, 344.

Epiphanes pallens, *Reichb. f. in Seem. Fl. Vit.* p. 296.

FORMOSA: Takow (*A. Henry*, 1878!). Parasite on roots, flowers white. Herb. Kew.

India.

An interesting discovery. I fail to distinguish it from the Indian plant, which is rather widely diffused.

1. **Gastrodia elata,** *Blume, Mus. Bot.* ii. p. 174; *Blume, Coll. Orch. Archip. Ind. et Jap.* p. 143, t. 53, fig. 1.

HUPEH: Ichang (*A. Henry*, 868, 4659!), Changyang, S. Patung, at 3000–5000 ft. (*A. Henry*, 6078!): SZECHUEN: without locality (*Pratt*, 100!). Mus. Brit.; Herb. Kew.

Japan and Tibet.

Native name "*Tien-ma.*" The root is a drug and is often eaten roasted like a potato (*A. Henry*).

1. **Cephalanthera erecta,** *Lindl. Gen. & Sp. Orch.* p. 412; *Blume, Coll. Orch. Archip. Ind. et Jap.* p. 188, t. 65, fig. 2; *Franch. et Savat. Enum. Pl. Jap.* ii. p. 35.

Serapias erecta, *Thunb. Fl. Jap.* p. 27; *Ic. Pl. Jap.* i. t. 4.

HUPEH: Patung (*A. Henry*, 1429, 3761!); SZECHUEN: S. Wushan (*A. Henry*, 5464 A!). Mus. Brit.; Herb. Kew.

Japan.

2. **Cephalanthera falcata,** *Lindl. Gen. & Sp. Orch.* p. 412; *Blume, Coll. Orch. Archip. Ind. et Jap.* p. 187, t. 65, fig. 1, et t. 66, fig. E; *Franch. et Savat. Enum. Pl. Jap.* ii. p. 35.

Serapias falcata, *Thunb. Fl. Jap.* p. 28; *Ic. Pl. Jap.* i. t. 5.

Cephalanthera platycheila, *Reichb. f. in Bot. Zeit.* iii. (1845) p. 335.

Cephalanthera japonica, *A. Gray, Pl. Jap.* p. 319.

CHEKIANG: Ningpo (*Everard*! *Fortune*!); SZECHUEN: S. Wushan (*A. Henry*, 5621!). Mus. Brit.; Herb. Kew.

Japan.

1. **Epipactis consimilis,** *D. Don, Prodr. Fl. Nepal.* p. 28; *Wall. Cat.* n. 7403; *Hook. f. Fl. Brit. Ind.* vi. p. 126; *King & Pantl., in Ann. Roy. Bot. Gard. Calc.* viii. p. 272, t. 364.

Epipactis veratrifolia, *Boiss. et Hoh. ex Boiss. Diagn.* ser. 1, xiii. p. 11; *Lindl. in Journ. Linn. Soc., Bot.* i. (1857) p. 174; *Boiss. Fl. Orient.* v. p. 87.

YUNNAN: Lunan, at riverside (*A. Henry*, 11108!). Flowers brownish. Herb. Kew.

Sikkim, Western Temperate Himalaya, Afghanistan, and westward to Syria.

Lindley, relying rather on the locality than the characters given, has referred Don's plant to *E. latifolia*, Linn.; but Wallich, on whose specimens it was based, credits the species to Don, and the characters, "floribus bracteis triplo brevioribus, labello cucullato, lamina acuminata, perianthii foliolis longiore," agree with the type-specimen, and not at all with Wallich's specimen of *E. latifolia.*

2. **Epipactis gigantea,** *Dougl. in Hook. Fl. Bor.-Amer.* ii. p. 202, t. 202; *S. Watson, Bot. Calif.* ii. p. 136.

Epipactis americana, *Lindl. in Ann. Nat. Hist.* ser. 1, iv. (1840) p. 385; *Lindl. Gen. & Sp. Orch.* p. 462.

Epipactis Royleana, *Lindl. Gen. & Sp. Orch.* p. 461; *Journ. Linn. Soc., Bot.* i. (1857) p. 174; *Hook. f. Fl. Brit. Ind.* vi. p. 126.

Cephalanthera Royleana, *Regel, in Act. Hort. Petrop.* vi. (1879) p. 490; *Boiss. Fl. Orient.* v. p. 85.

HUPEH: in Wushan, Chienshuh, Patung, Changyang, Fang, and Nanto, common at about 5000 ft. (*A. Henry,* 705, 1880, 3953, 4518, 5633!); SZECHUEN: Tatsienlou (*Soulié,* 113, 788!), without locality (*Pratt,* 23, 76, 212, 711!); COREA: Chemulpo (*Carles,* 150!). Herb. Kew.

Mandshuria, Himalayas, and Western North America.

The Japanese *E. Thunbergii,* A. Gray, which has been referred here by Franchet & Savatier, has rather small flowers and some differences in the lip, from which I should question its specific identity with this widely diffused plant.

ORCHIDACEÆ: OPHRYDEÆ.

1. **Orchis aristata,** *Fisch. ex Lindl. Gen. & Sp. Orch.* p. 262; *Reichb. Fl. Germ.* xiii.–xiv. t. 410; *Hook. Fl. Bor.-Amer.* ii. p. 195; *Macoun, Cat. Canad. Pl.* ii. p. 12; *Somoku Zusetsu,* xviii. t. 51.

Orchis latifolia, var. Beeringiana, *Cham. in Linnæa,* iii. (1828) p. 26; *Hook. et Arn. Bot. Beechey, Voy.* p. 117; *Reichb. Fl. Germ.* xiii.–xiv. p. 60; *Ledeb. Fl. Ross.* iv. p. 54; *Miq. Ann. Mus. Bot. Lugd.-Bat.* ii. p. 206; *Franch. et Savat. Enum. Pl. Jap.* ii. p. 29.

Orchis camtschatica, *Cham. in Linnæa,* iii. (1828) p. 27?

SZECHUEN: Mount Omei, at 9000 ft. (*Faber,* 949!). Herb. Kew.

Kamtschatka, Unalaska, Sachalin, and Japan.

The aristate segments and different habit readily separate this species from *O. latifolia,* Linn. *O. camtschatica,* Cham., may represent a luxuriant state of the same, but in the absence of specimens the point remains doubtful.

2. **Orchis Chusua,** *D. Don, Prodr. Fl. Nepal.* p. 23; *Hook. f. Fl. Brit. Ind.* vi. p. 127.

Gymnadenia Chusua, *Lindl. Gen. & Sp. Orch.* p. 280.

SZECHUEN: Tatsienlou (*Soulié*, 210 !); without locality (*Pratt*, 690, 697 !). Mus. Brit.; Herb. Kew.

Alpine Himalaya.

3. **Orchis monophylla**, *Rolfe, in Orch. Rev.* (1898) p. 144; *Bot. Mag.* t. 7601.

Habenaria monophylla, *Coll. et Hemsl. in Journ. Linn. Soc., Bot.* xxviii. (1890) p. 134; *Hook. f. Fl. Brit. Ind.* vi. p. 143.

YUNNAN: Mengtze, grassy uplands, 6000–7000 ft. (*Hancock*, 590 !), Flowers pink, leaves mottled; mountains, among rocks, 6000–7000 ft. (*A. Henry*, 11118, 11118 A !), Flowers pinkish-lilac and purple-pink. Herb. Kew.

Shan States.

A beautiful little species.

4. **Orchis Roborovskii**, *Maxim. in Bull. Acad. St. Pétersb.* xxxi. (1887) p. 104; *Mél. Biol.* xii. p. 547.

KANSUH: Tangut (*Przewalski*, ex *Maximowicz*).

Only known to me from the original description.

5. **Orchis salina**, *Turcz. ex Lindl. Gen. & Sp. Orch.* p. 259; *Ledeb. Fl. Ross.* iv. p. 53.

Orchis incarnata, var. lanceolata, *Reichb. f. in Reichb. Fl. Germ.* xiii.–xiv. p. 176, t. 522, fig. 2.

KANSUH: Tangut (*Przewalski* !). Herb. Kew.

Siberia and Mongolia.

6. **Orchis spathulata**, *Reichb. f. ex Hook. f. Fl. Brit. Ind.* vi. p. 127; *Hook. Ic. Pl.* t. 2197, fig. A.

Gymnadenia spathulata, *Lindl. Gen. & Sp. Orch.* p. 280.

SZECHUEN: Tongolo (*Soulié*, 349 !); without locality (*Pratt*, 11 !). Herb. Kew.

Alpine Himalaya.

7. **Orchis Szechenyiana**, *Reichb. f. in Kanitz, Pl. Exped. Szechenyi Asia Centr.* (1891) p. 58.

KANSUH: Sziningfu, 9000 ft. (*Szechenyi*, ex *Reichenbach*).

Only known to me from the original description.

1. **Herminium angustifolium**, *Benth. ex Hook. f. Fl. Brit. Ind.* vi. p. 129.

Aceras angustifolia, *Lindl. Gen. & Sp. Orch.* p. 232; *Bot. Reg.* sub t. 1525; *Journ. Linn. Soc., Bot.* iii. (1859) p. 43; *Royle, Ill. Bot. Himal.* p. 370, t. 87, fig. 1; *Wight, Ic.* v. p. 11, t. 1691.

Aceras longicruris, *C. Wright, in Mem. Amer. Acad.* ser. 2, vi. (1858-9) p. 411.

FORMOSA (*Oldham*, 248, 560!); HUPEH: Ichang and Nanto (*A. Henry*, 856, 2042, 3912, 6202, 6421, 7383!). Mus. Brit.; Herb. Kew.

Japan, Mandshuria, and Northern India; also collected in Java and Timor by H. O. Forbes.

2. **Herminium biporosum**, *Maxim. in Bull. Acad. St. Pétersb.* xxxi. (1887) p. 106; *Mél. Biol.* xii. p. 549.

KANSUH: Tangut (*Przewalski*).

Only known to me from the original description.

3. **Herminium Monorchis**, *R. Br. in Ait. Hort. Kew.* ed. 2, v. p. 191; *Lindl. Gen. & Sp. Orch.* p. 305; *Reichb. Fl. Germ.* xiii.-xiv. p. 105, t. 415; *Boiss. Fl. Orient.* v. p. 82; *Hook. f. Fl. Brit. Ind.* vi. p. 128.

Ophrys Monorchis, *Linn. Sp. Pl.* ed. 1, p. 947.

CHIHLI: Peking (*David*!), Jehol (*David*!); KIANGSU: Peikou Pass (*Pierson*!); KANSUH: Tangut (*Przewalski*!). Mus. Brit.; Herb. Kew.

Widely diffused in Europe and N. Asia.

4. **Herminium Souliei**, *Rolfe*, n. sp.

Planta circa ½ ped. alta. *Folia* 2-3, suberecta, linearia v. oblongo-linearia, subacuta, 1¾-3 poll. longa, 2½-4 lin. lata. *Racemus* 2¼-2½ poll. longus, multiflorus. *Bracteæ* ovato-lanceolatæ, acuminatæ, 2-2½ lin. longæ. *Pedicelli* 1½-2 lin. longi. *Sepalum* posticum orbiculare, obtusum, 1 lin. longum; lateralia orbiculari-ovata, obtusa v. apiculata, subobliqua, 1¼ lin. longa. *Petala* lineari-oblonga, obtusa, 1 lin. longa. *Labellum* 1¾ lin. longum, ecalcaratum, basi latum, planum, medio constrictum, apice tricuspidato-trilobum; lobi laterales falcato-lineares, 1 lin. longi; lobus intermedius oblongus, obtusus, ½ lin. longus. *Columna* lata, ⅓ lin. longa.

SZECHUEN: Tongolo (*Soulié*, 407!). Herb. Kew.

Allied to *H. angustifolium*, Benth., but dwarfer, and quite different in the details of the flower.

5. **Herminium tanguticum**, *Rolfe*, n. sp.

Tuber ovoideo-globosum, 4-5 lin. longum. *Folia* 2-3, subradicalia, ovato-oblonga, subacuta, ¾-2 poll. longa, 4-7 lin. lata. *Scapus* 2-6 poll. altus; racemus densiflorus, ½-1 poll. longus. *Bracteæ* triangulari-lanceolatæ, acutæ, 1½-2 lin. longæ. *Sepala*

ovato-oblonga, subobtusa, $1\frac{1}{2}$–$1\frac{3}{4}$ lin. longa. *Petala* subtriloba, 2–$2\frac{1}{2}$ lin. longa, basi lata, apice caudato-acuminata. *Labellum* 2–$2\frac{1}{2}$ lin. longum, tricuspidato-trilobum, basi latum, concavum, ecalcaratum, lobis lateralibus divaricatis oblongis subobtusis brevibus, lobo intermedio caudato-acuminato. *Columna* brevissima.—*Herminium alaschanicum* var. *tangutica*, Maxim. in Bull. Acad. St. Pétersb. xxxi. (1887) p. 105; Mél. Biol. xii. p. 548.

KANSUH: Tangut, in rupibus, 10,100 ft. (*Przewalski*!). Herb. Kew.

Very distinct from the Mongolian *Herminium alaschanicum*, Maxim., to which it has been referred as a variety, both in habit and structure.

1. **Gymnadenia conopsea**, *R. Br. in Ait. Hort. Kew.* ed. 2, v. p. 191; *Lindl. Gen. & Sp. Orch.* p. 275; *Ledeb. Fl. Ross.* iv. p. 64; *Boiss. Fl. Orient.* v. p. 81; *Franch. Pl. David.* i. p. 294.

Orchis conopsea, *Linn. Sp. Pl.* ed. 1, p. 942.

Habenaria conopsea, *Benth. in Journ. Linn. Soc., Bot.* xviii. (1880) p. 354 (non *Reichb. f.*).

CHIHLI: Pohuashan (*David*); SZECHUEN: Tatsienlou (*Soulié*, 100, 506!); without locality (*Pratt*, 672!). Herb. Kew.

Widely diffused in Europe and Siberia.

2. **Gymnadenia cucullata**, *Rich. in Mém. Mus. Par.* iv. (1818) p. 57; *Lindl. Gen. & Sp. Orch.* p. 279; *Maxim. Ind. Fl. Pekin., in Prim. Fl. Amur.* p. 477.

Orchis cucullata, *Linn. Sp. Pl.* ed. 1, p. 939.

Habenaria cucullata, *Höfft, Cat. Kursk.* p. 56, ex *Ledeb. Fl. Ross.* iv. p. 66.

Himantoglossum cucullatum, *Reichb. Fl. Germ. Excurs.* p. 120.

CHIHLI: Pekin (*Maximowicz*); HUPEH: Fang, at 8000–9000 ft. (*A. Henry*, 6873, 6890, 6899 B!); KANSUH: Tangut (*Przewalski*!). Mus. Brit.; Herb. Kew.

Central Russia from Moscow eastward, through Siberia to China; also in Sikkim.

3. **Gymnadenia Faberi**, *Rolfe.*

Habenaria Faberi, *Rolfe, in Kew Bulletin* (1896), p. 201.

SZECHUEN: Mt. Omei, on rocks at 9000 ft. alt. (*Faber*, 319!). Herb. Kew.

Allied to *G. Pinguicula*, S. Moore, but the flowers are only about a fourth as large. It also approaches *G. gracilis*, Miq.,

which, however, has numerous flowers, a differently-shaped lip, and a spur of less than half the size. *G. Faberi* is described from a single specimen, with one flower, but there is a second bract with the remains of another flower.

4. **Gymnadenia gracile,** *Miq. Ann. Mus. Bot. Lugd.-Bat.* ii. p. 207; *Maxim. in Bull. Soc. Nat. Mosc.* liv. (1879) p. 60.

Mitostigma gracile, *Blume, Mus. Bot.* ii. p. 190.

Gymnadenia tryphiæformis, *Reichb. f.* ex *Hemsl. in Journ. Bot.* xxiv. (1876) p. 209.

Kiangsi: Kiukiang (*Shearer*! *F. B. Forbes*, 151! *Faber*, 1090!); Hupeh: Patung district (*A. Henry*, 4660!), Tunghu, at 4000 ft. (*A. Henry*, 6434!); Corea: Chemulpo (*Carles*, 88!), Paul, Herschel, and Tracey Islands (*Oldham*, 1027!). Mus. Brit.; Herb. Kew

Japan.

5. **Gymnadenia lepida,** *Reichb. f. Otia Bot. Hamb.* (1878) p. 51; *Xen. Orch.* iii. p. 28.

Luchu Archipelago (*Nilson*, ex *Reichenbach*!).

6. **Gymnadenia Pinguicula,** *S. Moore, in Journ. Bot.* xxvi. (1878) p. 135; *Maxim. in Bull. Soc. Hist. Nat. Mosc.* liv. (1879) p. 60.

Habenaria Pinguicula, *Benth. in. Journ. Linn. Soc., Bot.* xviii. (1880) p. 355.

Chekiang: Ningpo (*Everard*! *Hancock*! hb. *Hance*, 21232!). Mus. Brit.; Herb. Kew.

1. **Peristylus chloranthus,** *Lindl. in Hook. Kew Journ. Bot.* vii. (1855) p. 37.

Cœloglossum lacertiferum et acuminatum, *Lindl. Gen. & Sp. Orch.* p. 163.

Habenaria lacertifera, *Benth. Fl. Hongk.* p. 362; *Hook. f. Fl. Brit. Ind.* v. p. 163.

Habenaria tentaculata, *Kränzl. in Engl. Bot. Jahrb.* xvi. (1892) p. 160, in part.

Chæradoplectron Spiranthes, *Schauer, in Nov. Act. Nat. Cur.* xix. *Suppl.* i. (1843) p. 436, t. 6, fig. C.

China: Cape Syngmoon (*Meyen*); Formosa: Bankinsing Mountains (*A. Henry*, 895, 1572 A!); Szechuen: Mt. Omei, at 5000 ft. (*Faber*, 938, 941, 944!); Hongkong (*Champion*, 269! *Ford*, 46, 1289!; *Hance*! *Lamont*!). Mus. Brit.; Herb. Kew.

India.

2. **Peristylus goodyeroides**, *Lindl. Gen. & Sp. Orch.* p. 299; *Dalz. & Gibs. Bomb. Fl.* p. 270; *Royle, Ill. Himal. Pl.* t. 87, fig. 2.

Habenaria goodyeroides, *D. Don, Prodr. Fl. Nepal.* p. 25; *Hook. f. Fl. Brit. Ind.* vi. p. 161.

Peristylis grandis, *Blume, Bijdr.* p. 405.

FORMOSA: Ape's Hill, Takow (*Playfair*, 154!), Flowers yellowish white (*A. Henry*, 1126!), South Cape (*A. Henry*, 1211!), Bankinsing (*A. Henry*, 1572!); YUNNAN: Mengtze, mountains and damp places (*Hancock*, 218!), 4800–5500 ft. ? (*A. Henry*, 11127!). Herb. Kew.

Widely diffused in India, also found in Java and the Philippines.

There seems a slight doubt as to whether there may not be more than one species included under this name.

3. **Peristylus Sampsoni**, *Hance, in Journ. Bot.* vi. (1868) p. 371.

Habenaria Sampsoni, *Hance, in Journ. Bot.* vii. (1869) p. 163 (in note).

KWANGTUNG: Pakwan, near Canton (*Sampson*, herb. *Hance*, 14493!), White Cloud Hill (*Sampson*, 1158!); without locality (*Ford*, 361!). Mus. Brit.; Herb. Kew.

4. **Peristylus viridis**, *Lindl. Syn. Brit. Fl.* ed. 2, p. 261; *Gen. & Sp. Orch.* p. 299.

Satyrium viride, *Linn. Sp. Pl.* ed. 1, p. 944.

Habenaria viridis, *R. Br. in Ait. Hort. Kew.* ed. 2, v. p. 192; *Syme, Engl. Bot.* ed. 3, ix. p. 105, t. 1462.

Orchis viridis, *Crantz, Stirp. Austr.* ed. 2, p. 491.

Gymnadenia viridis, *A. Rich. in Mém. Mus. Par.* iv. (1818) p. 57.

Platanthera viridis, *Lindl. Syn. Brit. Fl.* ed. 1, p. 261; *Reichb. Fl. Germ.* xiii.–xiv. p. 129, t. 434.

Himantoglossum viride, *Reichb. Fl. Germ. Excurs.* p. 120.

Orchis bracteata, *Willd. Sp. Pl.* iv. p. 34.

Satyrium bracteatum, *Pers. Syn.* ii. p. 507.

Habenaria bracteata, *R. Br. in Ait. Hort. Kew.* ed. 2, v. p. 192.

Peristylus bracteatus, *Lindl. Gen. & Sp. Orch.* p. 298; *Palibin, in Act. Hort. Petrop.* xiv. (1895) p. 140.

Platanthera viridis, var. bracteata, *Reichb. f. in Reichb. Fl. Germ.* xiii.–xiv. p. 130, t. 434, fig. 1.

CHIHLI: Weichang (*Putjata & Borodowsky*, ex *Palibin*); HUPEH: Hsingshan, at 8000–9000 ft. alt. (*A. Henry*, 6874, 6996!). Mus. Brit.; Herb. Kew.

Widely diffused in the Northern Hemisphere.

1. **Platanthera chlorantha,** *Cust. ex Reichb. in Moessl. Handb.* ed. 2, ii. p. 1565; *Reichb. Ic. Crit.* ix. t. 853; *Lindl. Gen. & Sp. Orch.* p. 285.

Habenaria chlorantha, *Bab. in Trans. Linn. Soc.* xvii. (1836) p. 462; *Syme, Engl. Bot.* ed. 3, ix. p. 107, t. 1664 ("H. eu-bifolia, t. 1663" on plate, by error).

SHINGKING: between Mukden and Tungcheshien (*James*!); SZECHUEN: without locality (*Pratt*, 689!); COREA: Soul Mountains (*Carles*, 136!). Herb. Kew.

Western Europe and Northern Asia, from Britain to Mandshuria.

2. **Platanthera flava,** *Lindl. Gen. & Sp. Orch.* p. 293.

Orchis fuscescens, *Linn. Sp. Pl.* ed. 1, p. 943.

Habenaria herbiola, *R. Br. in Ait. Hort. Kew.* ed. 2, v. p. 193; *Spreng. Syst. Veg.* iii. p. 688.

Habenaria virescens, *Spreng. Syst. Veg.* iii. p. 688; *A. Gray, Bot. N. U. St.* ed. 5, p. 499.

Perularia fuscescens, *Lindl. Gen. & Sp. Orch.* p. 281; *Spreng. Syst. Veg.* iii. p. 688; *Ledeb. Fl. Ross.* iv. p. 66; *Franch. Pl. David.* i. p. 294; *Reichb. Fl. Germ.* xiii.–xiv. p. 116, t. 426.

CHIHLI: Pohuashan (*David*, 2253); SHINGKING: between Tungcheshien and Maorshan, Yaloo River (*James*!). Herb. Kew.

Siberia and North America.

3. **Platanthera Henryi,** *Rolfe.*

Habenaria Henryi, *Rolfe, in Kew Bulletin* (1896), p. 202.

CHEKIANG (*Hickin*!); KIANGSI: Kiukiang (*Shearer*!); FOKIEN: about 2000 ft. (*Carles*, 685!); HUPEH: Patung (*A. Henry*, 4716, 6148!), Kuei (*A. Henry*, 7663!); SZECHUEN: S. Wushan (*A. Henry*, 7453!), Mt. Omei (*Faber*, 941!). Mus. Brit.; Herb. Kew.

Allied to *Platanthera mandarinorum*, Reichb. f., but taller, with more lax racemes and smaller flowers.

4. **Platanthera hologlottis,** *Maxim. Prim. Fl. Amur.* p. 268.

SHINGKING: Mukden (*Webster*!); COREA: Port Chusan (*Wilford*, 962!). Herb. Kew.

Dahuria and Japan.

5. **Platanthera iantha,** *Wight, Ic.* v. p. 11, t. 1692.

Habenaria iantha, *Hook. f. Fl. Brit. Ind.* vi. p. 164.

YUNNAN: hill-slopes at Mengtze, at 5700 ft. (*Hancock*, 41! *A. Henry*, 11111!). Apparently rare. Flowers purple-red. Herb. Kew.

South India.

6. **Platanthera interrupta**, *Maxim. in Bull. Acad. Sc. St. Pétersb.* xxxi. (1887) p. 106.

KWANGTUNG: Lantao Island (*Ford*, 46!); COREA: without locality (*Oldham*, 843!), Port Chusan (*Wilford*, 944!), Chemulpo (*Carles*, 96!). Mus. Brit.; Herb. Kew.

Mandshuria and Japan.

7. **Platanthera japonica**, *Lindl. Gen. & Sp. Orch.* p. 290; *Franch. et Savat. Enum. Pl. Jap.* ii. p. 31.

Habenaria japonica, *A. Gray, in Mem. Am. Acad.* n. s. vi. (1858–9) p. 410; *Somoku Zusetsu*, xviii. t. 52.

Orchis japonica, *Thunb. Fl. Jap.* p. 26.

HUPEH: Patung (*A. Henry*, 1835, 4082, 5041!), Fang (*A. Henry*, 5889, 5889 A!); SZECHUEN: S. Wushan (*A. Henry*, 5713!), without locality (*Pratt*, 104!). Mus. Brit.; Herb. Kew.

Japan.

8. **Platanthera mandarinorum**, *Reichb. f. in Linnæa*, xxv. (1852) p. 226.

Habenaria Keiskei, *Miq. Ann. Mus. Bot. Lugd.-Bat.* ii. p. 207.

Platanthera Keiskei, *Franch. et Savat. Enum. Pl. Jap.* ii. p. 31.

Platanthera oreades, *Franch. et Savat. l. c.* p. 514.

CHEKIANG: Chusan Hills (*Fortune*, 48!); Ningpo (*Hancock*, herb. *Hance*, 21214!); FOKIEN: Amoy (*Fortune*, 79!). Mus. Brit.; Herb. Kew.

Japan.

9. **Platanthera obcordata**, *Lindl. Gen. & Sp. Orch.* p. 290.

Orchis obcordata, *Buch.-Ham. in D. Don, Prodr. Fl. Nepal.* p. 23.

Gymnadenia obcordata, *Reichb. f. Otia Bot. Hamb.* p. 32.

Platanthera Galeandra, *Reichb. f. in Linnæa*, xxv. (1852) p. 226.

Habenaria Galeandra, *Benth. Fl. Hongk.* p. 363; *Hook. f. Fl. Brit. Ind.* vi. p. 163.

Gymnadenia Galeandra, *Reichb. f. Otia Bot. Hamb.* p. 33.

Platanthera Championi, *Lindl. in Hook. Kew Journ. Bot.* vii. (1855) p. 37.

FORMOSA: Bankinsing Mountains (*A. Henry*, 850!); HONGKONG (*Champion*, 270! *Hance*, 105, 738! *Wright*, 525! *Fortune*, 78!); KWANGTUNG: Lantao Island (*Ford*, 47!). Mus. Brit.; Herb. Kew.

Western Himalaya and Central India.

10. **Platanthera stenostachya**, *Lindl. in Hook. Kew. Journ. Bot.* vii. (1855) p. 37.

Habenaria stenostachya, *Benth. Fl. Hongk.* p. 362; *Hook f. Fl. Brit. Ind.* vi. p. 156.

Habenaria peristyloides, *Wight, Ic. Pl. Ind. Or.*, v. p. 13, t. 1702 (non *A. Rich.*).

Cœloglossum densum, *Lindl. Gen. & Sp. Orch.* p. 302; *Reichb. f. in Bonplandia*, iii. (1855) p. 250, iv. p. 321.

Cœloglossum peristyloides, *Reichb. f. in Bonplandia*, iv. (1856) p. 321.

HONGKONG (*Champion*! *Hance*, 740! *Lamont*!). Mus. Brit.; Herb. Kew.

North and South India.

11. **Platanthera Susannæ**, *Lindl. Gen. & Sp. Orch.* p. 295.

Orchis Susannæ, *Linn. Sp. Pl.* ed. 1, p. 939.

Habenaria Susannæ, *R. Br. Prodr.* p. 312; *Blume, Bijdr.* p. 402; *Benth. Fl. Hongk.* p. 363; *Hook. f. Fl. Brit. Ind.* vi. p. 137.

Orchis gigantea, *Sm. Exot. Bot.* ii. p. 79, t. 100.

Habenaria gigantea, *D. Don, Prodr. Fl. Nepal.* p. 24; *Bot. Mag.* t. 3374.

Platanthera robusta, *Lindl. Gen. & Sp. Orch.* p. 295.

YUNNAN: Mengtze, rare, on grassy mountain slopes (*Hancock*, 120!), 5500 ft. (*A. Henry*, 11,095!); KWANGTUNG: près de Fukwing (*Krone*); HONGKONG (*Champion*, 272! *Fortune*, 126! *Hance*, 741!). Mus. Brit.; Herb. Kew.

India and Malaya.

12. **Platanthera ussuriensis**, *Maxim. in Bull. Acad. St. Pétersb.* xxxi. (1887) p. 107; *Mél. Biol.* xii. p. 551.

Platanthera tipuloides, var. ussuriensis, *Regel, Fl. Ussur.* p. 157, t. 10, figg. 7–9.

CHEKIANG: Ningpo Mts. (*Faber*, 57, 1707!); KIANGSI: Lushan Mts., Kiukiang (*Bullock*, 93!); HUPEH: Tunghu (*A. Henry*, 6415!), Hsingshan (*A. Henry*, 6415 *a*!), Chienshih (*A. Henry*, 7470!). Mus. Brit.; Herb. Kew.

Mandshuria and Japan.

1. **Habenaria acuifera**, *Lindl. Gen. & Sp. Orch.* p. 325; *Hook. f. Fl. Brit. Ind.* vi. p. 146; *Kränzl. in Engl. Bot. Jahrb.* xvi. (1892) p. 155.

Habenaria linguella, *Lindl. Gen. & Sp. Orch.* p. 325; *Benth. Fl. Hongk.* p. 262; *Kränzl. in Engl. Bot. Jahrb.* xvi. (1892) p. 196.

CHINA: without locality (*Fortune*, 86! *Millett*!); KWANGTUNG: without locality (*Wenyon*!); Lofaushan (*Ford*!); HONGKONG (*Champion*, 217! *Urquhart*! *Hance*, 545! *Lamont*, 766! *Forbes*!); HAINAN (*B. Henry*!). Mus. Brit.; Herb. Kew.

Northern India and Tavoy.

Lindley specifically separated the Chinese and Indian plants, though placing them next to each other, but Sir Joseph Hooker afterwards united them, and I believe correctly. Dr. Kränzlin, however, places them far apart, in different sections of the genus, which is certainly erroneous.

2. **Habenaria camptoceras**, *Rolfe, in Journ. Linn. Soc., Bot.* xxix. (1892) p. 319.

SZECHUEN: Tatsienlou (*Soulié*, 610 !); without locality (*Pratt*, 305 !). Mus. Brit.; Herb. Kew.

3. **Habenaria ciliolaris**, *Kränzl. in Engl. Bot. Jahrb.* xvi. (1892) p. 169.

CHEKIANG: Ningpo Mts. (*Faber*, 201 !); HUPEH: S. Tunghu (*A. Henry*, 7487 !); HONGKONG (*Ford*, 98 !), Little Hongkong (*Ford*, 95 !). Mus. Brit.; Herb. Kew.

4. **Habenaria endothrix**, *Miq. Journ. Bot. Néerl.* i. (1861) p. 92.

KWANGTUNG: Hoan (*Krone*, ex *Miquel*).

The author describes this species as an ally of *H. linguella*, Lindl. (i. e. *H. acuifera*, Lindl.).

5. **Habenaria ensifolia**, *Lindl. Gen. & Sp. Orch.* p. 321.

Habenaria pectinata, *Hook. f. Fl. Brit. Ind.* vi. p. 137, partim (non *Don*); *Kränzl. in Engl. Bot. Jahrb.* xvi. (1892) p. 193, partim; *Orch. Gen. et Sp.* p. 405, partim, & excl. var.; *King & Pantl. in Ann. Roy. Bot. Gard. Calc.* viii. p. 310, partim, t. 406.

HUPEH: Tunghu, at 4000 ft. (*A. Henry*, 6446 !), S. Patung (*A. Henry*, 7384 !); YUNNAN: Mengtze, rocky and grassy mountains, 5000–6500 ft. (*A. Henry*, 11119 !). Herb. Kew.

Temperate Himalaya.

6. **Habenaria Fordii**, *Rolfe, in Kew Bulletin* (1896), p. 202.

? YUNNAN: Mengtze, woods at 4700 ft. (*A. Henry*, 11101 !); KWANGTUNG (*Ford*, 360 !). Flowers white. Herb. Kew.

Allied to the Indian *H. commelynifolia*, Wall., but having much larger flowers, and the leaves not cauline.

7. **Habenaria geniculata**, *D. Don, Prodr. Fl. Nepal.* p. 25; *Lindl. Gen. & Sp. Orch.* p. 324; *Hook. f. Fl. Brit. Ind.* vi. p. 138; *Kränzl. in Engl. Bot. Jahrb.* xvi. (1892) p. 198.

Orchis dentata, *Sw. in Vet. Akad. Nya Handl. Stock.* xxi. (1800) p. 207.
Platanthera dentata, *Lindl. Gen. & Sp. Orch.* p. 296.

CHINA (*Swartz*).

Northern India to Burma.

Inserted on the authority of Swartz, whose habitat, however, has not been confirmed.

8. **Habenaria glaucifolia**, *Bur. et Franch. in Journ. de Bot.* v. (1891) p. 152.

SZECHUEN: Tatsienlou (*Bonvalot & Prince Henri d'Orleans*, ex *Bur. et Franch.*; *Soulié*, 159!); Tongolo (*Soulié*, 324!), without locality (*Pratt*, 587!); YUNNAN: near Tali (*Delavay*, 124, ex *Bur. et Franch.*). Mus. Brit.; Herb. Kew.

9. **Habenaria Hancockii**, *Rolfe, in Kew Bulletin* (1896), p. 202.

YUNNAN: damp grassy slopes at Mengtze, at 5500–6000 ft. (*Hancock*, 85!), Flowers flesh-colour; grassy mountains, 4600–6000 ft. (*A. Henry*, 11122!). Herb. Kew.

Allied to *H. acuifera*, Wall., but with much longer side-lobes to the lip, more clavate spur, &c.

10. **Habenaria humidicola**, *Rolfe, in Kew Bulletin* (1896), p. 202.

CHEKIANG: Ningpo Mts., in damp places in the shade of rocks (*Faber*, 200!). Herb. Kew.

Nearly allied to *H. reniformis*, Hook. f., but the leaves are longer, the flowers smaller, and the different parts much more slender.

11. **Habenaria intermedia**, *D. Don, Prodr. Fl. Nepal.* p. 24; *Lindl. Gen. & Sp. Orch.* p. 322; *Reichb. f. in Gard. Chron.* (1879) ii. p. 136; *Hook. f. Fl. Brit. Ind.* vi. p. 138.

SZECHUEN: Mt. Omei, at 3500–4500 ft. (*Faber*, 950!); Yangtzekiang (*Faber*, 976!); YUNNAN: Mengtze, grassy mountains and uplands (*Hancock*, 588!). Herb. Kew.

Temperate Himalaya.

12. **Habenaria leptoloba**, *Benth. Fl. Hongk.* p. 362.

HONGKONG (*Hance*, 1288!). Mus. Brit.; Herb. Kew.

Kränzlin (in Engl. Bot. Jahrb. xvi. (1892) p. 160) doubtfully reduces this to *H. tentaculata*, Reichb. f. (i. e. *Glossula tentaculata*, Lindl.), but it is a very different plant, with a long spur, and more nearly allied to *H. khasiana*, Hook. f.

13. **Habenaria Miersiana,** *Champ. in Hook. Kew Journ. Bot.* vii. (1855) p. 37; *Benth. Fl. Hongk.* p. 363; *Hance, in Journ. Bot.* vii. (1869) p. 161, partim.

Habenaria Sieboldiana, *Miq. Ann. Mus. Bot. Lugd.-Bat.* ii. p. 208.

Habenaria radiata, *Kränzl. in Engl. Bot. Jahrb.* xvi. (1892) p. 200, partim (non *Miq.*).

FOKIEN: Amoy (*Fortune*, 40!), Foochow (*Carles*, 688!);
FORMOSA: South Cape (*A. Henry*, 1212!), Bankinsing Mountains
A. Henry, 1607!); HUPEH: Nanto (*A. Henry*, 4576, 4611!);
YUNNAN: Mengtze, grassy mountains at 5000–6000 ft. (*A.*
77 – *Henry*, 11098, 11123, 11128!), Flowers white; KWANGTUNG:
Macao (*Gaudichaud*, 59!), Lienchau River (*Ford*, 329!), Pakwan
(*Sampson*, 546!); HONGKONG (*Champion*, 336! *Harland*!
Urquhart, 231! *Lamont*!). Mus. Brit.; Herb. Kew.

Japan.

I cannot follow Hance and Kränzlin in referring this plant to *Habenaria radiata*, Miq.

Var. **yunnanensis,** *A. Finet, in Journ. de Bot.* xii. (1898) p. 341.

YUNNAN: Tapintze (*Delavay*), Salouen Valley (*Prince Henri d'Orleans*, ex *Finet*).

A dwarf alpine form of the species.

14. **Habenaria omeiensis,** *Rolfe, in Kew Bulletin* (1896), p. 203.

SZECHUEN: Mount Omei, at 8000 ft. (*Faber*, 951!). Herb. Kew.

Allied to the Indian *H. latilabris*, Hook. f., and *H. stenantha*, Hook. f., but with a more lax raceme of larger flowers.

15. **Habenaria polytricha,** *Rolfe, in Hook. Ic. Pl.* t. 2496.

FORMOSA: South Cape (*A. Henry*, 1246!). Herb. Kew

A remarkable species, belonging to the small group *Medusæformes*, and allied to *H. ternatea*, Reichb. f.

16. **Habenaria reniformis,** *Hook. f. Fl. Brit. Ind.* vi. p. 152.

Listeria reniformis, *D. Don, Prodr. Fl. Nepal.* p. 208.

Neottia reniformis, *Spreng. Syst. Veg.* iii. p. 707.

Herminium reniforme, *Lindl. in Wall. Cat.* n. 7067.

Aopla reniformis, *Lindl. in Bot. Reg.* vii. sub t. 1701; *Gen. & Sp. Orch.* pp. 304, 457; *Benth. Fl. Hongk.* p. 363.

KWANGTUNG: Pakwan (*Sampson* !); HONGKONG (*Harland*, 1063! *Lamont*, 780! *Hance*, 1279!). Mus. Brit.; Herb. Kew.

Nepal and Khasia Hills.

This species often occurs in a peloriate state, with entire lip and no spur; but in the normal form the lip is three-lobed and the spur linear.

17. **Habenaria rhodocheila**, *Hance, in Ann. Sc. Nat.* sér. 5, v. (1866) p. 243.

Habenaria militaris, *Kränzl. in Engl. Bot. Jahrb.* xvi. (1892) p. 203, partim (non *Reichb. f.*).

KWANGTUNG: Canton, North River, on rocks (*Sampson*, hb. *Hance*, 11332!), Lofaushan, at 600 ft. (*Ford*, hb. *Hance*, 17376!). Mus. Brit.; Herb. Kew.

Quite distinct from *H. militaris*, Reichb. f., with which Kränzlin has united it.

18. **Habenaria sagittifera**, *Reichb. f. in Bot. Zeit.* iii. (1845) p. 334; *Hance, in Journ. Bot.* vi. (1878) p. 233; *Franch. et Savat. Enum. Pl. Jap.* ii. p. 33; *Somoku Zusetsu*, xviii. t. 60; *Franch. in Mém. Soc. Nat. Cherb.* xxiv. (1884) p. 257; *Debeaux, Fl. Tien-tsin*, p. 69; *Kränzl. in Engl. Bot. Jahrb.* xvi. (1892) p. 205.

Habenaria linearifolia, *Maxim. Prim. Fl. Amur.* p. 269; *Regel, Fl. Ussur.* p. 157, t. 10, figg. 14–18.

CHIHLI: Peking (*Bretschneider* !); SHANTUNG: Chefoo (*Stuhlmann*, *Mollendorff*, hb. *Hance*, 11332! *Fauvel*, ex *Franchet*); CHEKIANG: Ningpo mts. (*Faber*, 55, 198, 298!); COREA: Chemulpo (*Carles*, 113!), Gensan (*Hickin* !). Mus. Brit.; Herb. Kew.

Japan and Eastern Asia.

19. **Habenaria yunnanensis**, *Rolfe*, n. sp.

Planta ¾–1¼ ped. alta. *Folia* 3 v. 4, radicalia, subsessilia, ovata, apiculata, 1–1¼ poll. longa, 8–11 lin. lata. *Scapus* vaginis lanceolatis acuminatis obtectus. *Racemus* 2–4 poll. longus, laxiflorus. *Bracteæ* lanceolatæ, acuminatæ, 2–4 lin. longæ. *Pedicelli* 5–7 lin. longi. *Sepalum* posticum ovatum, cucullatum, obtusum, 1½ lin. longum; lateralia patentia, oblongo-lanceolata, acuta, 2½ lin. longa. *Petala* linearia, 1½ lin. longa, cum sepalo postico in galeam conniventia. *Labellum* tripartitum, 4 lin. longum; lobi lineares, æquales; calcar elongatum, incurvum, 6–7 lin. longum, apice paullo fusiformi-incrassatum. *Columna* 1 lin. longa; processus stigmaticus ¼ lin. longus.

YUNNAN: Mengtze, rocky mountains at 6000 ft. (*A. Henry*, 11121!). Flowers white. Herb. Kew.

A very distinct species belonging to the section *Trimeroglossa.*

1. **Diplomeris chinensis**, *Rolfe, in Kew Bulletin* (1896), p. 203.

CHEKIANG: Tientai mt., at 1000 ft., on damp rocks (*Faber*, 95!). Herb. Kew.

Remarkable for the inflated base of the spur.

1. **Hemipilia brevicalcarata**, *Finet, in Bull. Soc. Bot. Fr.* xliv. (1897) p. 420, t. 14, figg. A–G.

YUNNAN: west of Talifou, between the rivers Yangpi and Tieueultsin (*Prince Henri d'Orleans*, ex *Finet*).

2. **Hemipilia cruciata**, *Finet, in Bull. Soc. Bot. Fr.* xliv. (1897) p. 421, t. 14, figg. H–P.

YUNNAN: Menghoutin, south of Talifou (*Prince Henri d'Orleans*, ex *Finet*).

3. **Hemipilia flabellata**, *Bur. et Franch. in Journ. de Bot.* v. (1891) p. 152.

SZECHUEN (probably): without locality (*Bonvalot & Prince Henri d'Orleans*).

The locality is not stated, but the majority of the plants of this collection were from this province.

4. **Hemipilia Henryi**, *Reichb. f. ex Bur. et Franch. in Journ. de Bot.* vi. (1891), p. 152 (nomen tantum); *Rolfe, in Kew Bulletin* (1896) p. 203.

HUPEH: Ichang (*A. Henry*, 1534!), Nanto (*A. Henry*, 6347!), Hsingshan (*A. Henry*, 6347 A!), Fang (*A. Henry*, 6347 B!). Mus. Brit.; Herb. Kew.

Allied to the Himalayan *H. cordifolia*, Lindl.

1. **Glossula tentaculata,** *Lindl. Bot. Reg.* x. (1824) t. 862.

Glossaspis tentaculata, *Spreng. Syst. Veg.* iii. p. 694; *Benth. Fl. Hongk.* p. 361.

Glossaspis antennifera, *Reichb. f. in Linnæa,* xxv. (1852) p. 225.

Habenaria tentaculata, *Reichb. f. Otia Bot. Hamb.* p. 34; *Trans. Linn. Soc.* xxx. (1874) p. 139; *Kränzl. in Engl. Bot. Jahrb.* xvi. (1892) p. 160, partim.

CHINA: without locality (*Fortune,* 182!); KWANGTUNG: Maisaou, at 1800 ft. (*Tate*!), Lofaushan, at 600 ft. (*Ford*!), Lienchau, Canton (*Lamont*!); HONGKONG (*Champion,* 30! *Wright,* 523! *Wilford,* 282! *Lamont,* 772! *Bowring*! *Hance,* 524!). Herb. Kew.

Siam and Cambodia.

This plant has been confused with *Habenaria lacertifera,* Benth., and *H. leptoloba,* Benth. Whether it can be retained as a separate genus is perhaps doubtful, but its specific distinctness can hardly be called in question.

1. **Satyrium nepalense,** *D. Don, Prodr. Fl. Nepal.* p. 26; *Lindl. Gen. & Sp. Orch.* p. 340; *in Journ. Linn. Soc., Bot.* iii. (1859) p. 44; *Bot. Mag.* t. 6625; *Hook. f. Fl. Brit. Ind.* vi. p. 168.

SZECHUEN: Tatsienlou (*Soulié,* 62, 433!); YUNNAN: Mengtze, S.E. mts., among grass at 6000 ft. (*A. Henry,* 9192, 9192 B!); south of Red River, from Mamnei, at 6000 ft. (*A. Henry,* 9192 A!). Herb. Kew.

North and South India and Ceylon.

A widely diffused and variable species.

ORCHIDACEÆ: CYPRIPEDIEÆ.

1. **Cypripedium arietinum,** *R. Br. in Ait. Hort. Kew.* ed. 2, v. p. 222; *Bot. Mag.* t. 1567; *Lindl. Gen. & Sp. Orch.* p. 529; *Franch. in Bull. Soc. Bot. Fr.* xxxiii. (1886) p. 206; *Bull. Soc. Philom. Paris,* sér. 7, xii. (1891) p. 140; *in Journ. Bot.* viii. (1894) p. 252.

Cypripedium plectrochilon, *Franch. in Bull. Soc. Bot. Fr.* xxxii. (1885) p. 27.

HUPEH: S. Patung (*A. Henry,* 5474!); SZECHUEN: without locality (*Pratt,* 87, 763!); YUNNAN: Mt. Chetchotze (*Delavay,* 1020!). Mus. Brit.; Herb. Kew.

Canada and North-east United States.

2. **Cypripedium Calceolus,** *Linn. Sp. Pl.* p. 951; *Lindl. Gen. & Sp. Orch.* p. 527; *Reichb. Fl. Germ.* xiii.–xiv. p. 167, t. 496; *Palibin, in Act. Hort. Petrop.* xiv. (1895) p. 140.

CHIHLI: Huangtuliangtze (*Putjata et Borodowsky*, ex *Palibin*). Europe and Central Asia.

3. **Cypripedium corrugatum,** *Franch. in Journ. de Bot.* viii. (1894) p. 251.

YUNNAN: calcareous hills at the sources of the Peechaha, at 3500 m. (*Delavay*, 3478); calcareous rocks at Maculchan (*Delavay*).

Var. **obesa,** *Franchet, l. c.*

YUNNAN: woods at Lienyn, at 2800 m.: also Koutoui and Fangyangtchang (*Delavay*).

Only known to me from description.

4. **Cypripedium ebracteatum,** *Rolfe, in Kew Bulletin* (1896), p. 204.

HUPEH (*A. Henry*, 1404 (2)!). Mus. Brit.

A remarkable ebracteate species, differing from *C. micranthum*, Franch., in its much larger flowers, and from *C. margaritaceum*, Franch., and *C. Fargesii*, Franch., in its saccate lip. The only specimen seen is at the British Museum, and it has been mixed with *C. japonicum*, Thunb.

5. **Cypripedium Fargesii,** *Franch. in Journ. de Bot.* viii. (1894) p. 267.

SZECHUEN: Tchenkéoutin, at 2000 m. (*Farges*, 585!). Herb. Kew.

Much larger than *C. margaritaceum*, of which it may possibly be a luxuriant state.

6. **Cypripedium fasciolatum,** *Franch. in Journ. de Bot.* viii. (1894) p. 232.

SZECHUEN: woods of Heoupin, near Tchenkeou, at 2200 m. (*Farges*, 922!). Herb. Kew.

7. **Cypripedium guttatum,** *Sw. in Vet. Akad. Nya Handl. Stockh.* xxi. (1800) p. 251; *Lindl. Gen. & Sp. Orch.* p. 529; *Ledeb. Fl. Ross.* iv. p. 88; *Maxim. Prim. Fl. Amur.* p. 270; *F. Schmidt, Reis. in Amurl. und Ins. Sachalin*, p. 184; *Reichb. Fl. Germ.* xiii.–xiv. p. 166, t. 495; *Fl. des Serres*, t. 573; *Franch. in Journ. de Bot.* viii. (1894) p. 253.

CHIHLI: Peking mountains, at 6000 ft. alt. (*Hancock*, 14! *Bretschneider*!); Siaowutaishan (*Möllendorff*!); Ipehoashan (*David*); Sylingchan (*Provot*, 136); SHINGKING: Toonghwahein (*Ross*, 33!); SZECHUEN: without locality (*Pratt*, 264!); Tongolo (*Soulié*, 311, ex *Franchet*, 327, 328!). Mus. Brit.; Herb. Kew.

Widely diffused from Central Europe, through temperate Asia, to Alaska, in the neighbourhood of the Mackenzie River.

8. **Cypripedium Henryi**, *Rolfe, in Kew Bulletin* (1892), p. 211; *Franch. in Journ. de Bot.* viii. (1894) p. 271.

Cypripedium chinense, *Franch. in Journ. de Bot.* viii. (1894) p. 230.

HUPEH: S. Patung (*A. Henry*, 5391 A!), Chienshih (*A. Henry*, 5391 D!); SZECHUEN: S. Wushan (*A. Henry*, 5391 B!), Kimise near Tchenkéoutin, at 1200 m. (*Farges*, 1036, ex *Franchet*). Herb. Kew.

9. **Cypripedium himalaicum**, *Rolfe, in Journ. Linn. Soc., Bot.* xxix. (1892) p. 319; *Franch. in Journ. de Bot.* viii. (1894) p. 249.

Cypripedium macranthum, *Hook. f. Fl. Brit. Ind.* vi. p. 170, partim (non *Sw.*).

SZECHUEN: without locality (*Pratt*, 748!). Herb. Kew.

Sikkim and Nepal.

10. **Cypripedium japonicum**, *Thunb. Fl. Jap.* p. 30; *Ic. Pl. Jap.* i. t. 1; *Lindl. Gen. & Sp. Orch.* p. 529; *Blume, Coll. Orch.* p. 169, t. 59; *Franch. et Savat. Enum. Pl. Jap.* ii. p. 40; *Franchet, in Journ. de Bot.* viii. (1894) p. 254.

HUPEH: Patung (*A. Henry*, 1404, 3777!); SZECHUEN: Tchenkéoutin (*Farges*, 649, ex *Franchet*). Mus. Brit.; Herb. Kew.

Japan.

11. **Cypripedium luteum**, *Franch. Pl. David.* ii. p. 126; *id. in Journ. de Bot.* viii. (1894) p. 228.

HUPEH: Fang, at 7000 ft. (*A. Henry*. 5391 E, 6740!); SZECHUEN: Tatsienlou (*Soulié*, 413! *Prince Henri d'Orleans & R. P. Soulié*, 576), without locality (*Pratt*, 263!); Tchenkéoutin (*Farges*, 134 bis). Herb. Kew.

Tibet.

12. **Cypripedium macranthum,** *Sw. in Vet. Akad. Nya Handl. Stockh.* xxi. (1800) p. 251; *Bot. Mag.* t. 2938; *Bot. Reg.* t. 1534; *Lindl. Gen. & Sp. Orch.* p. 528; *Ledeb. Fl. Ross.* iv. p. 87; *Reichb. Fl. Germ.* xiii.–xiv. p. 169, t. 498; *Franch. et Savat. Enum. Pl. Jap.* ii. p. 40; *Hook. f. Fl. Brit. Ind.* vi. p. 170, partim; *Franch. in Journ. de Bot.* viii. (1894) p. 232.

CHIHLI: Pohuashan (*David,* 2216! *Möllendorff,* 431!), Siaowutaishan, at 5000 ft. alt. (*Möllendorff*!), Peking mountains, at 5000 ft. (*Hancock,* 13! *Bretschneider*! *David,* 3!), Sylingchan (*Bodinier et Provot*); SHINGKING: Toonghwahien (*Ross,* 54!), Mukden to Yaloo River (*Webster,* 34!), between Mukden and Tungcheshien (*James*!); SZECHUEN: Tchenkéoutin (*Farges,* 509, ex *Franchet*). Mus. Brit.; Herb. Kew.

Central Russia to Eastern Siberia and Japan.

13. **Cypripedium margaritaceum,** *Franch. in Bull. Soc. Phil. Par.* sér. 7, xii. (1891) p. 141; — *Reprint,* p. 8; *Orchidophile,* 1888, p. 368, with plate; *Rolfe, in Gard. Chron.* (1889) i. p. 43; *Franch. in Journ. de Bot.* viii. (1894) p. 265.

YUNNAN: on mount Tsangchan, above Tali (*Delavay,* 282); also above Mosoyn, and at Hec-chan-men (*Delavay*).

14. **Cypripedium micranthum,** *Franch. in Journ. de Bot.* viii. (1894) p. 265.

SZECHUEN: in woods at Heoupin, near Tchenkéoutin, at 2000 m. (*Farges,* 1286!).

15. **Cypripedium tibeticum,** *King, ex Rolfe, in Journ. Linn. Soc., Bot.* xxix. (1892) p. 320; *Franch. in. Journ. de Bot.* viii. (1894) p. 250 (*thibeticum*).

Cypripedium macranthum, *Hook. f. Fl. Brit. Ind.* vi. p. 170, partim (non *Sw.*).

SZECHUEN: Tongolo (*Soulié,* 953!), without locality (*Pratt,* 14, 42, 301, 736!), between Batang and Litang (*Prince Henri d'Orleans*), Tatsienlou (*Soulié,* 312). Herb. Kew.

Tibet.

16. **Cypripedium yunnanense,** *Franch. in Journ. de Bot.* viii. (1894) p. 231.

YUNNAN: forests of Hec-chan-men (*Delavay,* 2480); Mosoyn, in the woods of Koutoui, at 2800 m. (*Delavay,* ex *Franchet*).

Only known to me from the description.

1. **Paphiopedilum Parishii**, *Pfitz. in Engl. Bot. Jahrb.* xix. (1894) p. 41.

Cypripedium Parishii, *Reichb. f. in Flora*, lii. (1869), p. 322, *et in Gard. Chron.* (1869) pp. 814, 1158, cum fig.; *Bot. Mag.* t. 5791; *Williams, Orch. Alb.* ii. t. 86; *Ill. Hort.* xxii. t. 214.

Selenipedium Parishii, *Jolibois, in Rev. Hort.* (1885) p. 132.

YUNNAN: Mengtze, on mountains at 6000–7000 ft. (*Hancock*, 582!). Herb. Kew.

Burma.

2. **Paphiopedilum purpuratum**, *Pfitz. in Engl. Bot. Jahrb.* xix. (1894) p. 40.

Cypripedium purpuratum, *Lindl. in Bot. Reg.* xxiii. t. 1991; *Gen. & Sp. Orch.* p. 530; *Bot. Mag.* t. 4901; *Benth. Fl. Hongk.* p. 364; *Godefr.-Lebeuf & Brown, Les Cyprip.* t. 5.

Cypripedium sinicum, *Hance, in Walp. Ann.* iii. p. 602.

HONGKONG (*Champion*, 29!, *Wilford*, 283! *Ford*, 443!). Mus. Brit.; Herb. Kew.

An endemic species. In the original description it is said to have been introduced to cultivation from the Malayan Archipelago, which is clearly an error; while in the 'Flora Hongkongensis,' Khasia is given as one of its habitats; but the specimen on which this remark is based is a piece of *C. venustum*, Wall., collected by Griffith, and mounted on the same sheet as *purpuratum*.

136. SCITAMINEÆ.

(By C. H. WRIGHT, A.L.S.)

1. **Globba bulbosa**, *Gagnep. in Bull. Soc. Bot. France*, xlviii. (1901) p. 202, pl. iv. figg. 1–6.

KWEICHAU: environs of Kweiyang (*Bodinier*, ex *Gagnepain*).

1. **Roscoea alpina**, *Royle, Ill. Him. Bot.* p. 361, t. 89. fig. 1; *Wight, Ic. Pl. Ind. Or.* t. 2013, fig. 1; *Horan. Monogr. Scit.* p. 20; *Hook. f. Fl. Brit. Ind.* vi. p. 207.

Roscoea purpurea, *Royle, Ill. Him. Bot.* p. 361, t. 89. fig. 3.

Roscoea purpurea, var. minor, *Wall. Cat.* n. 6528, D & E.

SZECHUEN: Tachienlou (*Pratt*, 518!).

Northern India.

2. **Roscoea capitata**, var. **purpurata**, *Gagnep. in Bull. Soc. Bot. France*, xlviii. (1901) p. lxxiv.

Yunnan: woods in the gorges of San-tchang-kiou (*Delavay*, 4491, *ex Gagnepain*).

Var. **scillifolia**, *Gagnep. in Bull. Soc. Bot. France*, xlviii. (1901) p. lxxiv.

Yunnan: Kanhaytze on the Hec-chan-men at 9000 ft. (*Delavay*, 2685, 2685 bis, ex *Gagnepain*), moist places below the pass of Hec-chan-men at 9000 ft. (*Delavay*, 3283, ex *Gagnepain*).

3. **Roscoea cautleoides**, *Gagnep. in Bull. Soc. Bot. France*, xlviii. (1901) p. lxxv.

Yunnan: Hec-chan-men (*Delavay*, 92, 231 ter, ex *Gagnepain*), environs of Lake Er'Hai (*Prince Henry of Orleans*, ex *Gagnepain*).

4. **Roscoea Chamæleon**, *Gagnep. in Bull. Soc. Bot. France*, xlviii. (1901) p. lxxvi.

Yunnan: sides of the Hec-chan-men (*Delavay*, 2659, ex *Gagnepain*).

5. **Roscoea debilis**, *Gagnep. in Bull. Soc. Bot. France*, xlviii. (1901) p. lxxvi.

Yunnan: in the wood of Lan-ngy-tien (*Ducloux*, 688, ex *Gagnepain*).

6. **Roscoea intermedia**, var. **minuta**, *Gagnep. in Bull. Soc. Bot. France*, xlviii. (1901) p. lxxiii.

Yunnan: Naeulchan (*Delavay*, ex *Gagnepain*).

Var. **macrorhiza**, *Gagnep. l. c.*

Yunnan: environs of Yunnan-sen (*Ducloux*, 601, ex *Gagnepain*).

Var. **anomala**, *Gagnep. l. c.*

Yunnan: environs of Yunnan-sen (*Ducloux*, 597, ex *Gagnepain*).

1. **Kæmpferia cœnobialis**, *C. H. Wright.*

Monolophus cœnobialis, *Hance, in Journ. Bot.* viii. (1870) p. 75.

Kwangtung: North River, Canton (*Sampson*, ex *Hance*).

2. **Kæmpferia elegans**, *Wall. Pl. As. Rar.* i. p. 24, t. 27; *Hook. f. Fl. Brit. Ind.* vi. p. 222.

Monolophus? elegans, *Wall. Cat.* n. 6593.

Szechuen (*Mesny*, 8).

India and Malay Peninsula.

3. **Kæmpferia fongyuensis**, *Gagnep. in Bull. Soc. Bot. France*, xlviii. (1901) p. lxxviii.

YUNNAN: environs of Lake Er'Hai, at Fungyu (*Prince Henry of Orleans*, ex *Gagnepain*).

4. **Kæmpferia Galanga**, *Linn. Sp. Pl.* ed. 1, p. 3; *Lour. Fl. Cochinch.* p. 12; *Rosc. Scitam.* t. 92; *Bot. Mag.* t. 850; *Hook. f. Fl. Brit. Ind.* vi. p. 219.

CHINA (ex *Loureiro*); KWANGTUNG: Whampoa (*Hance*, 22423! cult.). Mus. Brit.

India, Malaya.

5. **Kæmpferia pandurata**, *Roxb. in As. Res.* xi. (1810) p. 328, t. 4; *Rosc. Scitam.* t. 96; *Bot. Reg.* t. 173; *Bretschn. Early Res.* p. 176; *Hook. f. Fl. Brit. Ind.* vi. p. 220; *Horan. Monogr. Scit.* p. 21.

Curcuma rotunda, *Linn. Sp. Pl.* ed. 1, p. 2; *Lour. Fl. Cochinch.* p. 9.

CHINA (ex *Loureiro*).

India, Malaya.

6. **Kæmpferia rotunda**, *Linn. Sp. Pl.* ed. 1, p. 3; *Rosc. Scitam.* t. 97; *Bot. Mag.* tt. 920 & 6054.

FORMOSA: Bankinsing (*A. Henry*, 851!). Herb. Kew.

India, Malaya.

7. **Kæmpferia (§ Pyrgophyllum) yunnanensis**, *Gagnep. in Bull. Soc. Bot. France*, xlviii. (1901) p. lxxvii.

YUNNAN: gorges of Tsongso, north of Tali (*Delavay*, 2721, ex *Gagnepain*).

[*Hedychium coronarium*, Koen. (Retz. Obs. iii. p. 73), is said in Bot. Mag. sub t. 708 to be "probably of Chinese origin." It has, however, been collected only in India and the Malayan Islands.]

1. **Curcuma longa**, *Linn. Sp. Pl.* ed. 1, p. 2; *Lour. Fl. Cochinch.* p. 8; *Horan. Monogr. Scit.* p. 23; *Bot. Reg.* t. 886; *Flück. & Hanbury, Pharmac.* p. 577; *Bentl. & Trim. Med. Pl.* t. 269; *Hook. f. Fl. Brit. Ind.* vi. p. 214; *Bretschn. Early Res.* p. 176.

Amomum Curcuma, *Jacq. Hort. Vind.* iii. t. 4.

CHINA (ex *Loureiro*): FORMOSA: Bankinsing, cultivated (*A. Henry*, 89, 1606!). Herb. Kew.

Cultivated throughout the Tropics.

"The radical tubers when dried constitute the medicine known as Yu-chin by the Chinese. The rhizomes are very yellow and undoubtedly turmeric."—*Dr. A. Henry.*

2. **Curcuma pallida,** *Lour. Fl. Cochinch.* p. 9; *Horan. Monogr. Scit.* p. 24; *Bretschn. Early Res.* p. 176.

KWANGTUNG: Canton (ex *Loureiro*).

[*Amomum medium*, Lour. Fl. Cochinch. p. 4, said to be from Yunnan, has been doubtfully referred to *Alpinia alba*, Rosc., which in its turn is probably only a form of *Alpinia Galanga*, Willd.]

1. **Zingiber confine,** *Miq. Journ. Bot. Néerl.* i. (1861) p. 94.

KWANGTUNG (*Krone*, ex *Miquel*).

2. **Zingiber corallinum,** *Hance, in Journ. Bot.* xviii. (1880) p. 301, & 1883, p. 357.

HAINAN (*Hancock*!). Mus. Brit.

3. **Zingiber integrilabrum,** *Hance, in Journ. Bot.* xx. (1882) p. 80.

HONGKONG: Mount Gough (*Ford*, 5! *Hance*, 21812!). Mus. Brit.; Herb. Kew.

4. **Zingiber officinale,** *Rosc. in Trans. Linn. Soc.* viii. (1807) p. 348; *Scitam.* t. 83; *Bentl. & Trim. Med. Pl.* t. 270; *Hook. f. Fl. Brit. Ind.* vi. p. 246.

Amomum Zingiber, *Linn. Sp. Pl.* ed. 1, p. 1; *Lour. Fl. Cochinch.* p. 2; *Bretschn. Early Res.* p. 176; *Jacq. Hort. Vind.* i. t. 75.

CHINA (ex *Loureiro* and *Bretschneider*); FORMOSA: Bankinsing (*A. Henry*, 491, 1575!). "Without any doubt a native of China."—*Bretschneider.*

Widely cultivated in the Tropics.

5. **Zingiber Zerumbet,** *Rosc. in Sm. Exot. Bot.* ii. p. 105, t. 112, *and Trans. Linn. Soc.* viii. (1807) p. 348; *Scitam.* t. 84; *Bot. Mag.* t. 2000; *Horan. Monogr. Scit.* p. 27; *Hook. f. Fl. Brit. Ind.* vi. p. 247; *Hance, in Journ. Bot.* xvii. (1879) p. 15.

Amomum Zerumbet, *Linn. Sp. Pl.* ed. 1, p. 1; *Jacq. Hort. Vind.* iii. t. 54.

Zerumbet Zingiber, *Lestib. in Ann. Sc. Nat.* 2^{me} sér. xv. (1841) p. 329.

KWANGTUNG: Tingushan, Canton (*Hance*, 17695!). Mus. Brit.; Herb. Kew.

Widely cultivated in the Tropics of the Old World.

6. **Zingiber** sp. indescript. ?
HUPEH: Tunghu (*A. Henry*, 7594, 7671!); SZECHUEN: N. Wushan (*A. Henry*, 7126!). Herb. Kew.

7. **Zingiber** sp. indescript. ?
HUPEH: Ichang (*A. Henry*, 7104 A!). Herb. Kew.

8. **Zingiber** sp. indescript. ?
FORMOSA: Bankinsing (*A. Henry*, 147, 1607!). Herb. Kew.

1. **Costus speciosus**, *Sm. Trans. Linn. Soc.* i. (1791) p. 249; *Roxb. in As. Res.* xi. p. 349; *Wight, Ic. Pl. Ind. Or.* t. 2014; *Horan. Monogr. Scit.* p. 37; *Hook. f. Fl. Brit. Ind.* vi. p. 249.

Costus arabicus, *Jacq. Ic.* t. 1, non *Linn.*

Banksia speciosa, *Koenig, in Retz. Obs.* iii. p. 75; *Rheede, Hort. Malab.* xi. t. 8.

FORMOSA: Takow (*A. Henry*, 1204!). Herb. Kew.

India and Malaya.

1. **Alpinia calcarata**, *Rosc. in Trans. Linn. Soc.* viii. (1807) p. 347; *Scitam.* t. 68; *Bot. Reg.* t. 141; *Hook. f. Fl. Brit. Ind.* vi. p. 254; *Horan. Monogr. Scitam.* p. 34.

Alpinia cernua, *Sims, in Bot. Mag.* t. 1900.

Renealmia calcarata, *Haw. in Andr. Rep.* t. 421.

Globba erecta, *Red. Lil.* t. 174.

HONGKONG (*Urquhart*, 227, 261! *Hance*, 1231!); HAINAN (*Swinhoe*!). Herb. Kew.

India and Malay Peninsula.

2. **Alpinia chinensis**, *Rosc. in Trans. Linn. Soc.* viii. (1807) p. 346; *Benth. Fl. Hongk.* p. 349.

Languas chinensis, *Koenig, in Retz. Obs.* iii. p. 65.

Heritiera chinensis, *Retz. Obs.* vi. p. 18.

Hellenia chinensis, *Willd. Sp. Pl.* i. p. 5.

Hellenia abnormis, *Lindl. in Trans. Hort. Soc.* vii. (1830) p. 60?

Monocystis abnormis, *Lindl. Introd. Bot.* ed. 2, p. 445; *Horan. Monogr. Scitam.* p. 36?

FOKIEN: Amoy (*Swinhoe*!); HONGKONG (*Wilford*, 403! *Wright*, 512, 513!); CHINA (*Fortune*, 65!). Herb. Kew.

Bonin Islands and Cambodia.

3. **Alpinia Galanga**, *Willd. Sp. Pl.* i. p. 12; *Horan. Monogr. Scitam.* p. 33; *Roxb. Fl. Ind.* i. p. 58; *Benth. Fl. Hongk.* p. 348; *Hook. f. Fl. Brit. Ind.* vi. p. 253.

Maranta Galanga, *Swartz, Obs. Bot.* p. 8.

Amomum Galanga, *Lour. Fl. Cochinch.* p. 5.

Alpinia viridiflora, *Griff. Notul.* iii. p. 423; *Ic.* t. 353.

FORMOSA: Bankinsing (*A. Henry*, 804!); HONGKONG (*Champion, Hance* ex *Bentham*); HAINAN (*A. Henry*, 8522!). Herb Kew.

India and Malaya.

4. **Alpinia globosa,** *Horan. Monogr. Scit.* p. 34.

Amomum globosum, *Lour. Fl. Cochinch.* p. 4; *Bretschn. Early Res.* p. 176.

CHINA (ex *Loureiro*).

"The plant is unknown to modern botanists."—*Bretschneider.*

5. **Alpinia japonica,** *Miq. in Ann. Mus. Bot. Lugd.-Bat.* iii. p. 140; *Franch. et Savat. Enum. Pl. Jap.* ii. p. 20; *Maxim. in Bull. Soc. Nat. Mosc.* liv. (1879) p. 59.

Globba japonica. *Thunb. Fl. Jap.* p. 23.

CHEKIANG: Ningpo (*Hancock* ex *Maximowicz*); HUPEH: South Tunghu (*A. Henry*, 7710!), Ichang (*Aldridge*!); SZECHUEN: Mount Omei (*Faber*, 956!); FORMOSA (*A. Henry*, 2079!). Herb. Kew.

Japan.

6. **Alpinia nutans,** *Rosc. in Trans. Linn. Soc.* viii. (1807) p. 346; *Scitam.* t. 73; *Smith, Exot. Bot.* ii. t. 106; *Bot. Mag.* t. 1903; *Wight, Ic. Pl. Ind. Or.* t. 2027; *Benth. Fl. Hongk.* p. 348; *Hook. f. Fl. Brit. Ind.* vi. p. 256.

Globba nutans, *Linn. Mant.* ii. p. 170; *Red. Lil.* t. 60.

Renealmia nutans, *Andr. Bot. Rep.* t. 360.

Zerumbet speciosum, *Schrad. & Wendland, Sert. Hannov.* iii. t. 19 (*err. typ.* 18); *Jacq. Fragm.* t. 68.

CHINA (*Fortune*, 79!); FORMOSA: Takow (*A. Henry*, 782!); HONGKONG (*Urquhart*, 158! *Wright*, 514!); SZECHUEN: above Chung Ching (*Faber*, 957!); HAINAN (*A. Henry*, 8594, 8731!), Ma Augza Volcano, Hoihow (*Hancock*, 34!). Herb. Kew.

Eastern Himalaya, Malayan Peninsula and Archipelago.

7. **Alpinia officinarum,** *Hance, in Journ. Linn. Soc., Bot.* xiii. (1872) p. 6, *et Journ. Bot.* xi. (1873) p. 175; *Bentl. & Trim. Med. Pl.* t. 271; *Flück. & Hanbury, Pharm.* p. 580; *Bot. Mag.* t. 6995; *Bretschneider, Hist. Europ. Bot. Disc.* p. 660.

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BOTANY

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THE JOURNAL

OF

THE LINNEAN SOCIETY.

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HAINAN (*Taintor* in herb. *Hance*, 16866 !), opposite Hainan (*Sampson* ex *Bretschneider*). Mus. Brit.; Herb. Kew.

8. **Alpinia oxyphylla,** *Miq. in Journ. Bot. Néerl.* i. (1861) p. 93.
KWANGTUNG: Hoan (*Krone* ex *Miquel*).

9. **Alpinia ? pumila,** *Hook. f. Bot. Mag.* t. 6832.
Amomum vittatum, *Hance, in Journ. Bot.* xxiv. (1886) p. 53.
KWANGTUNG: Lofaushan (*Ford* ! *Faber* ex *Hance*). Mus. Brit.; Herb. Kew.

10. **Alpinia stachyodes,** *Hance, in Journ. Linn. Soc., Bot.* xiii. (1876) p. 126.
HONGKONG (*Hance*, 1231 !). Mus. Brit.; Herb. Kew.

1. **Phrynium capitatum,** *Willd. Sp. Pl.* i. 17; *Roxb. in Asiat. Res.* xi. p. 325, t. 3; *Wight, Ic. Pl. Ind. Or.* t. 2016; *Horan. Monogr. Scitam.* p. 11; *Hook. f. Fl. Brit. Ind.* vi. p. 258.
Pontederia ovata, *Linn. Sp. Pl.* ed. 1, p. 288.
Phyllodia placentaria, *Lour. Fl. Cochinch.* p. 13.
KWANGTUNG: Fukwing (*Krone* ex *Hance*), West River (ex *Hance*); HAINAN (*A. Henry*, 8677 !). Mus. Brit.; Herb. Kew.
India, Malay Peninsula and Archipelago.

2. **Phrynium parviflorum,** *Roxb. Hort. Beng.* p. 1; *Fl. Ind.* i. p. 7; *Rosc. Scitam.* t. 34; *Horan. Monogr.* p. 11; *Hook. f. Fl. Brit. Ind.* vi. p. 259.
Maranta parviflora, *A. Dietr. Sp. Pl.* i. p. 30.
KWANGTUNG: Lofaushan (*Ford* !); HAINAN (*A. Henry*, 8732 !). Herb. Kew.
India and Malayan Peninsula.

3. **Phrynium sinicum,** *Miq. in Journ. Bot. Néerl.* i. (1861) p. 94.
KWANGTUNG: Phuluwei (*Krone* ex *Miquel*).

1. **Canna indica,** var. **orientalis,** *Hook. f. Fl. Brit. Ind.* vi. p. 260.
Canna indica, *Linn. Sp. Pl.* p. 1, *ex parte*; *Roxb. Fl. Ind.* i. p. 1; *Asiat. Res.* xi. p. 322; *Lour. Fl. Cochinch.* p. 10; *Benth. Fl. Hongk.* p. 349.
Canna orientalis, *Rosc. Scitam.* t. 12; *Horan. Monogr. Scit.* p. 16.

Canna chinensis, *Willd. in Ges. Naturf. Fr. Berl. Mag.* ii. (1808) p. 170.

SZECHUEN (*A. Henry*, 8828 !), near Tachienlu (*Pratt*, 378 !), Chung Ching (*Bourne*, 78 !), Hokiang (*Faber*, 308 !) ; HONGKONG (*Urquhart*, 69 !) ; HAINAN (*A. Henry*, 8030 !). Herb. Kew.

India and Malaya.

2. **Canna juncea**, *Retz. Obs.* fasc. i. p. 9.

CHINA (*Bladh* ex *Retzio*).

1. **Musa Basjoo**, *Sieb. in Verh. Batav. Gen.* xii. (1830) p. 18 ; *Miq. Ann. Mus. Bat.* iii. p. 140 ; *Franch. et Savat. Enum. Pl. Jap.* ii. p. 21 ; *Baker, in Bot. Mag.* t. 7182 ; *Ann. Bot.* vii. p. 210 ; *Kew Bulletin*, 1894, p. 248.

LUCHU ARCHIPELAGO (ex *Siebold*).

Cultivated in Southern Japan.

2. **Musa Cavendishii**, *Lamb. in Paxt. Mag.* iii. p. 51, with col. fig. ; *Baker, in Ann. Bot.* vii. p. 209 ; *Kew Bulletin*, 1894, p. 244 ; *Seem. Fl. Vit.* p. 289.

Musa chinensis, *Sweet, Hort. Brit.* ed. 2, p. 596 (*nomen*).

Musa sinensis, *Sagot, ex Baker, in Ann. Bot.* vii. p. 209.

SOUTHERN CHINA (ex *Sweet*).

3. **Musa coccinea**, *Andr. Bot. Rep.* t. 47 ; *Red. Lil.* tt. 307–8 ; *Bot. Mag.* t. 1559 ; *Fl. des Serres*, tt. 722–3 ; *Walp. Ann.* vi. p. 38 ; *Baker, in Ann. Bot.* vii. p. 220 ; *Kew Bulletin*, 1894, p. 258.

Musa Uranoscopos, *Lour. Fl. Cochinch.* p. 645 ; *Bretschn. Early Res.* p. 176.

SOUTHERN CHINA (ex *Andrews*).

Cochinchina.

4. **Musa lasiocarpa**, *Franch. in Journ. de Bot.* iii. (1889) p. 329 ; *Baker, in Ann. Bot.* vii. p. 208 ; *Kew Bulletin*, 1894, p. 243.

YUNNAN : near Tapintze (*Delavay* ex *Franchet*).

Native name, Ngaptsiao.

5. **Musa sapientum**, *Linn. Syst.* ed. x. p. 1303 ; *Sp. Pl.* ed. 2, p. 1477 ; *Rumph. Hort. Amboin.* v. p. 130, t. 60 ; *Roxb. Pl. Corom.* t. 275 ; *Horan. Monogr. Scit.* p. 42 ; *Benth. Fl. Hongk.*

p. 348; *Bretschn. Early Res.* p. 175; *Hook. f. Fl. Brit. Ind.* vi. p. 262; *Baker, in Ann. Bot.* vii. p. 211; *Kew Bulletin*, 1894, p. 250.

Musa corniculata, M. odorata, M. seminifera, *and* M. nana, *Lour. Fl. Cochinch.* p. 644; *Desv. in Journ. de Bot.* 1814, pp. 28, 30, 38–39, 43

HONGKONG (*Champion* ex *Bentham*); Mount Parker (*Ford*, 60!). Herb. Kew.

India and Malaya.

6. **Musa Wilsoni,** *W. J. Tutcher, in Gard. Chron.* ser. iii. xxxii. (1902) p. 450, fig. 151.

YUNNAN (*Wilson* ex *Tutcher*).

Young plants are in cultivation at Kew.

7. **Musa** sp.

YUNNAN: Szemao (*A. Henry*, 12325!).

This is cultivated and the enlarged base of the stem is eaten as a vegetable. It agrees with the description of *M. nepalensis*, Wall. (in *Roxb. Fl. Ind.* ii. 492 [1824]), of which no specimens are known to exist, and which is, as suggested by Wallich (*l. c.*), doubtfully distinct from the widely cultivated *M. superba*, Roxb. (*Hort. Beng.* 19).

137. HÆMODORACEÆ.

(By C. H. WRIGHT, A.L.S.)

1. **Aletris foliosa,** var. **sikkimensis,** *Franch. in Journ. de Bot.* x. (1896) p. 198.

Aletris sikkimensis, *Hook. f. Fl. Brit. Ind.* vi. p. 265.

SZECHUEN: Tachienlu (*Soulié*, 525!), Tchenkéoutin (*Farges* ex *Franchet*). Herb. Kew.

Sikkim.

2. **Aletris glabra,** *Bureau et Franch. in Journ. de Bot.* v. (1891) p. 156; *Franch. l. c.* x. (1896) p. 197.

SZECHUEN: Tachienlu (*Bonvalot* ex *Franchet*, *Pratt*, 675, 691!), Tongolo (*Soulié*, 309!). Herb. Kew.

3. **Aletris glandulifera,** *Bureau et Franch. in Journ. de Bot.* v. (1891) p. 156, x. (1896) p. 200.

SZECHUEN: Tachienlu (*Bonvalot* ex *Franchet*).

4. **Aletris japonica**, *Lamb. in Trans. Linn. Soc.* x. (1811) p. 407; *A. Gray, in Mem. Amer. Acad.* new ser. vi. (1859) p. 417; *S. Moore, in Journ. Bot.* xvi. (1878) p. 138; *Hance, in Journ. Bot.* xx. (1882) p. 295.

Aletris spicata, *Franch. in Journ. de Bot.* x. (1896) p. 199.

Hypoxis spicata, *Thunb. Fl. Jap.* p. 136.

Hypoxis farinosa, *Thunb. in Trans. Linn. Soc.* ii. (1794) p. 334.

ANWHEI: Wuhu (*Bullock*!); CHEKIANG: Ningpo (*Everard*!); KIANGSI: Kiukiang (*Shearer*! *Carles*, 460!); FORMOSA: Tamsui (*Oldham*, 563!), Keluug (*Ford*, 13!); HUPEH: Ichang (*Henry*, 269!), Patung (*Henry*, 1748!), Yangtsekiang (*Faber*, 895! *Gill*! *Stronach*!); KANSUH: Lidshapu (*Potanin*!); SZECHUEN: Chunching (*Bourne*!); COREA: Tsusima (*Wilford*, 866!); LUCHU ARCHIPELAGO (*Wright*, 346!): Oosima Islands (*Carpenter*, 12!). Mus. Brit., Herb. Kew.

Japan.

Var. **Fargesii**, *C. H. Wright.*

Aletris spicata, var. Fargesii, *Franch. in Journ. de Bot.* x. (1896) p. 200.

SZECHUEN: Tsoueuitsao (*Farges*, 437, ex *Franchet*).

5. **Aletris lactiflora**, *Franch. in Journ. de Bot.* x. (1896) p. 200.

SZECHUEN: Tachienlu (*Soulié* ex *Franchet*).

6. **Aletris lanuginosa**, *Bureau et Franch. in Journ. de Bot.* v. (1891) p. 155, x. (1896) p. 201.

Stachyopogon pauciflorus *et* S. spicatus, *Klotzsch, in Bot. Ergeb. Reise Pr. Waldem.* p. 49, t. 94.

Aletris nepalensis, *Hook. f. Fl. Brit. Ind.* vi. p. 264, *ex parte.*

SZECHUEN (*Faber*!), Litang (*Bonvalot* ex *Franchet*), Tachienlu (*Pratt*, 13, 182! *Soulié*, 445, 562!), Tongola (*Soulié* ex *Franchet*). Herb. Kew.

Kumaon.

7. **Aletris laxiflora**, *Bureau et Franch. in Journ. de Bot.* v. (1891) p. 155, x. (1896) p. 199.

SZECHUEN: Tachienlu (*Bonvalot* ex *Franchet*, *Soulié*, 12, 82, 102! *Pratt*, 86!). Herb. Kew.

8. **Aletris nepalensis**, var. **Delavayi**, *Franch. in Journ. de Bot.* x. (1896) p. 198.

Aletris Delavayi, *Franch. in Journ. de Bot.* v. (1891) p. 157 (*name only*).

YUNNAN: Tsang-chan (*Delavay*, 981, 2420, ex *Franchet*).

9. **Aletris revoluta**, *Franch. in Journ. de Bot.* x. (1896) p. 202.

SZECHUEN: Tchenkéoutin (*Farges* ex *Franchet*).

10. **Aletris stenoloba**, *Franch. in Journ. de Bot.* x. (1896) p. 203.

SZECHUEN: Souifou (*Delavay*, 2282! ex *Franchet*).

1. **Peliosanthes Delavayi**, *Franch. in Bull. Soc. Bot. France*, xliii. (1896) p. 43.

YUNNAN: Longki (*Delavay*, 3141, 4989! ex *Franchet*).

2. **Peliosanthes macrostegia**, *Hance, in Journ. Bot.* xxiii. (1885) p. 328.

KWANGTUNG: Lofaushan (*Ford*, 72!). Herb. Kew.

1. **Ophiopogon clavatus**, *C. H. Wright, in Kew Bulletin* (1895) p. 116, *and Hook. Ic. Pl.* t. 2382.

HUPEH: Patung (*A. Henry*, 6065!), Kuei (*A. Henry*, 6065 A!).

Allied to *O. dracænoides*, Hook. f., but differing in the shape of the leaves and larger, less numerous flowers.

2. **Ophiopogon Griffithii**, *Hook. f. Fl. Brit. India*, vi. p. 270.

Flueggea Griffithii, *Baker, in Journ. Linn. Soc., Bot.* xvii. (1879) p. 502.

SZECHUEN: Mount Omei (*Faber*, 890!). Herb. Kew.

Eastern Himalaya.

3. **Ophiopogon Jaburan**, *Lodd. Bot. Cab.* t. 1876; *Maxim. in Bull. Acad. St. Pétersb.* xv. (1871) p. 86; *Mél. Biol.* vii. p. 324; *Engler, Bot. Jahrb.* vi. (1885) p. 54.

Convallaria japonica, var. major, *Thunb. Fl. Jap.* p. 139.

Slateria Jaburan, *Sieb. in Verh. Batav. Gen.* xii. (1830) p. 15.

Flueggea Jaburan, *Kunth. Enum.* v. p. 303; *Baker, in Journ. Linn. Soc., Bot.* xvii. (1879) p. 502.

LUCHU ARCHIPELAGO: Amami Osima (*Döderlein* ex *Engler*).

Japan.

4. **Ophiopogon japonicus,** *Ker, in Bot. Mag.* t. 1063 ; *Maxim. in Bull. Acad. St. Pétersb.* xv. (1871) p. 87 ; *Mél. Biol.* vii. p. 325.

Convallaria japonica, *Linn. f. Suppl.* 204 ; *Red. Lil.* t. 80.

Convallaria japonica, var. minor, *Thunb. Fl. Jap.* p. 139.

Flüggea japonica, *Rich. in Schrad. N. Journ.* II. i. (1807) p. 9, t. 1 A ; *Kunth, Enum.* v. p. 301 ; *Baker, in Journ. Linn. Soc., Bot.* xvii. (1879) p. 501 ; *A. Gray, in Bot. Perry's Exped.* p. 322.

Slateria japonica, *Desv. in Verh. Batav. Gen.* xii. (1830) p. 15.

Ophiopogon japonicus, var. genuinus, *Maxim. in Bull. Acad. St. Petérsb.* xv. (1871) p. 87 ; *Mél. Biol.* 1870, p. 327.

KIANGSI : Kiukiang (*Shearer* !) ; FORMOSA : Ape's Hill (*A. Henry*, 1098 A !), South Cape (*A. Henry*, 1703 A !) ; HUPEH (*A. Henry*, 6438 !), Patung (*A. Henry*, 3705 !) ; SZECHUEN : Tachienlu (*Soulié*, 177 !) ; COREAN ARCHIPELAGO (*Oldham*, 883 !). Mus. Brit. ; Herb. Kew.

Japan.

Var. **umbraticola,** *C. H. Wright.*

Ophiopogon (Flueggea) umbraticola, *Hance, in Journ. Bot.* vi. (1868) p. 115 ; *Maxim. in Bull. Acad. St. Pétersb.* xv. (1871) 88 ; *Mél. Biol.* vii. p. 328.

Fluggea japonica, var. umbraticola, *Baker, in Journ. Linn. Soc., Bot.* xvii. (1879) p. 501.

FORMOSA : Takao (*Playfair*, 85 !) ; HUPEH : Ichang (*Henry*, 4344 A !) ; KWANGTUNG : Canton (*Hance* et *Sampson*, 13759 !), Lofaushan (*Ford* !). Herb. Kew.

Japan.

This is not, as stated by Maximowicz, synonymous with *O. japonicus* var. *intermedius*, Maxim., which has much larger, cernuous flowers ; in this they are small and erect.

Var. **umbrosus,** *Maxim. in Bull. Acad. St. Pétersb.* xv. (1871) p. 88 ; *Mél. Biol.* vii. p. 327.

CHIHLI : Peking (*Shaczkoff* ex *Maximowicz*).

Japan.

Var. **Wallichianus,** *Maxim. in Bull. Acad. St. Pétersb.* xv. (1871) p. 89 ; *Mél. Biol.* vii. p. 328.

Chloopsis acaulis, *Blume, Enum.* i. p. 14 ?

Flüggea Wallichiana, *Kunth, Enum.* v. p. 303.

Fluggea japonica, var. Wallichiana, *Baker, in Journ. Linn. Soc., Bot.* xvii. (1879) p. 501, *excl. syns.*

Ophiopogon Wallichianus, *Hook. f. Fl. Brit. Ind.* vi. p. 268 (*excl. syn.* Ophiopogon longifolius, *Decne.*).

SZECHUEN: Mount Omei (*Faber*, 310 !); KIANGSU: Woosung (*Home* !); KWANGTUNG: Canton (*Hance*, 10086 !). Mus. Brit.; Herb. Kew.

Japan, Temp. and Trop. Himalayas and Khasia.

1. **Liriope kansuensis,** *C. H. Wright.*

Ophiopogon (Liriope) kansuensis, *Batalin, in Act. Hort. Petrop.* xiii. (1893) p. 103.

KANSUH: by the River Heiho, near Sapa (*Potanin* ex *Batalin*).

2. **Liriope spicata,** *Lour. Fl. Cochinch.* p. 201.

Dracæna graminifolia, *Linn. Syst.* ed. 12, p. 246.

Convallaria spicata, *Thunb. Fl. Jap.* p. 141.

Fluggea spicata, *Schult. f. Syst.* vii. p. 309.

Ophiopogon japonicus, *Wall. Cat.* n. 5139, *ex parte.*

Ophiopogon spicatus, *Ker, in Bot. Reg.* t. 593; *conf. Bot. Mag.* sub t. 1063; *Kunth, Enum.* v. p. 299; *Benth. Fl. Hongk.* p. 371; *Maxim. in Bull. Acad. St. Pétersb.* xv. (1871) p. 83; *Mél. Biol.* vii. p. 321; *Hance, in Journ. Bot.* xii. (1874) p. 262; *Debeaux, Fl. Tchéf.* p. 135; *Maxim. Fl. As. Or. Fragm.* p. 63; *Franch. et Savat. Enum. Pl. Jap.* ii. p. 83.

Ophiopogon spicatus, var. gracilis, *Miq. Prol. Fl. Jap.* p. 143; *Maxim. in Bull. Acad. St. Pétersb.* xv. (1871) p. 85; *Mél. Biol.* vii. p. 323; *Franch. Plantes de Tchéfou*, p. 258.

Ophiopogon gracilis, *Kunth, Enum.* v. p. 298.

Ophiopogon longifolius, *Decne. in Fl. des Serres*, xvii. (1867–68) p. 182.

Ophiopogon spicatus, var. Kunthianus, *Maxim. in Bull. Acad. St. Pétersb.* xv. (1871) p. 84; *Mél. Biol.* vii. p. 322.

Liriope graminifolia, *Baker, in Journ. Linn. Soc., Bot.* xvii. (1879) p. 499.

SHINGKING: Moukden (*Webster*, 20 !); SHANTUNG: Chefoo (*Hancock*, 11 !); FORMOSA (*Oldham*, 575 !); HUPEH: Ichang (*Henry*, 353, 498, 911, 1044, 1093, 1329 !), Patung (*Henry*, 2550, 2806 !), Tunghu (*Henry*, 6439 !); KIANGSI: Kiukiang (*Shearer* ! *Möllendorff* ex *Hance*); KWANGTUNG: Macao (*Calléry*, 272 ! *Maingay*, 391 !); HONGKONG (*Champion*, 286 ! *Tate* ! *Hance*, 550, 703 ! *Wright*, 530 ! *Urquhart* !); KWANGSI (*Wenyon* !); HAINAN (*Henry*, 8385 !). Mus. Brit.; Herb. Kew.

Var. **densiflora,** *C. H. Wright.*

Ophiopogon spicatus, *Hook. f. in Bot. Mag.* t. 5348.

Ophiopogon Muscari, *Decne. in Fl. des Serres*, xvii. (1867–68) p. 181.

Ophiopogon spicatus, var. communis, *Maxim. in Bull. Acad. St. Pétersb.* xv. (1871) p. 85; *Mél. Biol.* vii. p. 323; *Hance, in Journ. Bot.* xxi. (1883) p. 358.

Liriope graminifolia, var. densiflora, *Baker, in Journ. Linn. Soc., Bot.* xvii. (1879) p. 500.

KIANGSU: Chinkiang (*Bullock* ex *Hance*); FORMOSA (ex *Baker*); LUCHU ARCHIPELAGO (*Wright*, 330!). Mus. Brit.; Herb. Kew.

Japan.

Var. **intermedia**, *Maxim.* fide *Franch. Pl. David.* p. 296.

KIANGSI: Kiukiang Mountains (*David*, 809, ex *Franchet*).

This may possibly be an error for *Ophiopogon japonicus*, var. *intermedius*, Maxim. in Bull. Acad. St. Pétersb. xv. (1871) p. 88; Mél. Biol. vii. p. 327.

Var. **koreana**, *C. H. Wright.*

Ophiopogon spicatus, var. koreanus, *Palibin, in Act. Hort. Petrop.* xix. (1901) p. 106.

COREA: Kyongkwi, Seoul (*Kalinowsky* ex *Palibin*).

Var. **latifolia**, *Franch. Pl. David.* p. 296.

KIANGSI: Kiukiang Mountains (*David*, 854, ex *Franchet*).

Var. **minor**, *C. H. Wright.*

Ophiopogon spicatus, *Lodd. Bot. Cab.* t. 694.

Ophiopogon spicatus, var. minor, *Maxim. in Bull. Acad. St. Pétersb.* xv. (1871) p. 85; *Mél. Biol.* vii. p. 327.

CHINA (ex *Loddiges*).

Japan.

138. IRIDEÆ.

(By C. H. WRIGHT, A.L.S.)

1. **Iris Bungei**, *Maxim. in Bull. Acad. St. Pétersb.* xxvi. (1880) p. 509; *Mél. Biol.* x. p. 695; *Franch. Pl. David.* i. p. 296; *Baker, Handb. Irideæ*, p. 5.

Iris ventricosa, *Maxim. Ind. Fl. Mongol. in Prim. Fl. Amur. Suppl.* p. 485, *non Pall.*

KIANGSI: Kiukiang (*Carles*, 447!); KANSUH occidentalis (*Potanin*!), Tangut (*Przewalski*!). Herb. Kew.

Mongolia.

2. **Iris Delavayi**, *Micheli, in Rev. Hort.* (1895) p. 398, figs. 128–9; *Hook. f. Bot. Mag.* t. 7661.

YUNNAN (*Delavay* ex *Micheli*).

3. **Iris dichotoma**, *Pall. Reise*, iii. p. 712 (1776); *Linn. fil. Suppl.* p. 97 (1781); *Bot. Reg.* t. 246; *Sweet, Brit. Flow. Gard.* t. 96; *Bunge, Enum. Pl. Chin. Bor.* p. 63; *Hance, in Journ. Bot.* xiii. (1875) p. 104; *Baker, in Journ. Linn. Soc., Bot.* xvii. (1877) p. 142; *Bot. Mag.* t. 6428; *Franch. Pl. David.* p. 298; *Maxim. in Bull. Acad. St. Pétersb.* xxvi. (1880) p. 540; *Mél. Biol.* x. p. 738.

Iris pomeridiana, *Fisch. ex Ledeb. Fl. Ross.* iv. p. 106.

Pardanthus dichotoma, *Ledeb. Fl. Ross.* iv. p. 106.

Evansia dichotoma *et* E. vespertina, *Decne. in Bull. Soc. Bot. France*, xx. (1873) p. 302.

CHIHLI: Pekin (*Bushell*! *Williams*! *Hance*, 12632! *David*, 442, ex *Franchet*, *Bretschneider*!), Jehol (*David*, 2165, ex *Franchet*), Siaowutaishan (*Hancock* ex *Maximowicz*); SHINGKING: Moukden (*Webster*, 52!); SHANTUNG: Chefoo (*Forbes* ex *Hance*). Mus. Brit.; Herb. Kew.

Dahuria, Mandshuria, Mongolia.

4. **Iris ensata**, *Thunb. in Trans. Linn. Soc.* ii. (1797) p. 328; *Baker, in Journ. Linn. Soc., Bot.* xvi. (1877) p. 139, *et* xvii. (1879) p. 387; *Maxim. in Bull. Acad. St. Pétersb.* xxvi. (1880) p. 512; *Mél. Biol.* x. p. 699; *Hance, in Journ. Bot.* xi. (1883) p. 358; *Franch. in Mém. Soc. Sc. Nat. Cherbourg*, xxiv. (1882) p. 258; *Baker, Handb. Irideæ*, p. 8; *Hook. f. Fl. Brit. Ind.* vi. p. 272; *Kanitz, in Bot. Res. Széch. Centr. As. Exped.* p. 58.

Iris graminea, *Thunb. Fl. Jap.* p. 34, *non Linn.*

Iris triflora, *Balbis, Misc. Bot.* p. 6, t. 1.

Iris biglumis, *Vahl, Enum.* ii. p. 149; *Sweet, Brit. Flow. Gard.* ser. 2, t. 187.

Iris Pallasii, *Fisch. in Trev. Ind. Sem. Hort. Vrat.* 1821.

Iris Pallasii, var. chinensis, *Fisch. in Bot. Mag.* t. 2331.

Iris longispatha, *Fisch. in Bot. Mag.* t. 2528.

Iris Moorcroftiana, *Wall. Cat.* no. 5021.

Iris oxypetala, *Bunge, Enum. Pl. Chin. Bor.* p. 63, *et in C. A. Meyer, Ind. Pl. Mus. Petrop.* (1834) p. 8, *non Hance.*

Iris caricifolia, *Pallas ex Link, Jahrb.* i. III. (1820) p. 72.

Iris longifolia, *Royle, Ill. Bot. Himal.* p. 372, t. 91. f. 2.

Iris fragrans, *Lindl. in Bot. Reg.* (1840) t. 1.

Iris Doniana, *Spach, Hist. Phan.* xiii. p. 34.

Iris ensata, var. chinensis, *Maxim. in Gartenfl.* t. 1011; *Bull. Acad. St. Pétersb.* xxvi. (1880) p. 514; *Mél. Biol.* x. p. 701.

CHIHLI: Peking (*Bullock*, 193! *Bretschneider*, 723! *Bushell*! *Hancock*, 22!), Jehol (*David*, 1744!); SHINGKING: Moukden

(*James* !), Tieling (*Webster*, 71 !), Fooling (*Ross*, 332 !); SHANTUNG: Chefoo, Tungtschaufu (*Hancock* ex *Maximowicz*); FOKIEN: Foochow (*Wykeham Perry* !); SHENSI (*David* ex *Franchet*, *Piasezki* ex *Maximowicz*); KANSUH (*Piasezki*, *Przewalski* ex *Maximowicz*), Kanesoufu (*Loczy*, 74, ex *Kanitz*); COREA (*Wykeham Perry* !). Mus. Brit.; Herb. Kew.

North Asia, Japan, Cashmir.

The variety *chinensis* differs only in having lighter flowers with narrower perianth-segments.

5. **Iris gracilis**, *Maxim. in Bull. Acad. St. Pétersb.* xxvi. (1880) p. 527; *Mél. Biol.* x. p. 720; *Baker*, *Handb. Irideæ*, p. 28.

KANSUH: Tangut (*Przewalski*, 3, 10 !); SZECHUEN: Tachienlu (*Pratt*, 262 !), Tongola (*Soulié*, 876 !). Herb. Kew.

Tibet.

6. **Iris Grijsi**, *Maxim. in Bull. Acad. St. Pétersb.* xxvi. (1880) p. 515; *Mél. Biol.* x. p. 702; *Hance, in Journ. Bot.* xx. (1882) p. 295; *Baker*, *Handb. Irideæ*, p. 6; *Franch. in Bull. Soc. Bot. France*, xlvi. (1899) p. 213.

Iris oxypetala, *Hance, in Journ. Bot.* viii. (1870) p. 314, *non Bunge.*

ANWHEI: Wuhu (*Bullock* !); FOKIEN (*De Grijs* in Herb. Hance, 8583 ! & 21351 !), Kuatun (*De la Touche* ex *Franchet*). Mus. Brit.; Herb. Kew.

7. **Iris Henryi**, *Baker*, *Handb. Irideæ*, p. 6.

HUPEH: Nanto (*Henry*, 6372 !). Mus. Brit.; Herb. Kew.

8. **Iris japonica**, *Thunb. in Trans. Linn. Soc.* ii. (1797) p. 327; *Miq. in Ann. Mus. Bot. Lugd.-Bat.* iii. p. 141; *Baker, in Gard. Chron.* ser. ii. vi. (1876) p. 37; *Journ. Linn. Soc., Bot.* xvi. (1877) p. 143; *Handb. Irideæ*, p. 24; *Franch. et Savat. Enum. Pl. Jap.* ii. p. 41; *Franch. Pl. David.* i. p. 298, *et* ii. p. 127; *Maxim. in Bull. Acad. St. Pétersb.* xxvi. (1880) p. 538; *Mél. Biol.* x. p. 736.

Iris squalens, *Thunb. Fl. Jap.* p. 33, *non Linn.*

Iris chinensis, *Curt. in Bot. Mag.* t. 373; *Regel, in Gartenfl.* t. 511. fig. 2–3.

Iris fimbriata, *Vent. Hort. Cels.* t. 9; *Red. Lil.* t. 152.

Isis fimbriata, *Tratt. Arch. Gewächsk.* p. 668.

Evansia chinensis, *Salisb. in Trans. Hort. Soc. Lond.* i. (1812) p. 303.

Evansia fimbriata, *Decne. in Bull. Soc. Bot. France*, xx. (1873) p. 302.

CHIHLI: Peking (*David* ex *Franchet*); HUPEH: Ichang (*Henry*, 786, 1161, 1254!), Nanto (*Henry*, 1967!), Yangtsekiang (*Gill*!); KIANGSI: Kiukiang (*Maries*! *Shearer*!); KWANGTUNG: Canton (*Hance*, 16441! cult.); CHINA (*Fortune*, 41!). Mus. Brit.; Herb. Kew.

Japan, Tibet.

9. **Iris lævigata**, *Fisch. in Ind. Sem. Hort. Petrop.* v. (1839) p. 36; *Gartenfl.* t. 442. fig. 1; *Bot. Mag.* t. 6132; *Baker, in Journ. Linn. Soc., Bot.* xvi. (1877) p. 142; *Baker, Handb. Irideæ*, p. 13.

Iris Kæmpferi, *Sieb. in Ill. Hort.* (1858) t. 157; *Fl. des Serres*, tt. 2073-4.

Iris Itsihatsi, *Hassk. Cat. Hort. Bogor.* p. 35.

Iris violacea, *Klatt, in Linnæa*, xxxv. (1867-68) p. 384.

Iris lævigata, var. Kæmpferi, *Maxim. in Bull. Acad. St. Pétersb.* xxvi. (1880) p. 521; *Mél. Biol.* x. p. 712.

SHINGKING: Moukden (*James*! *Ross*!), Toonghwahien (*Ross*!); COREA: Port Chusan (*Wilford*, 973!). Mus. Brit.; Herb. Kew.

Amur, Japan.

10. **Iris Loczyi**, *Kanitz, Bot. Res. Széch. Centr. As. Exped.* p. 58, t. 6. fig. ii. 5.

KANSUH: Nanszan (*Széchenyi* ex *Kanitz*).

Probably not distinct from *Iris tenuifolia*, Pall.

11. **Iris pandurata**, *Maxim. in Bull. Acad. St. Pétersb.* xxvi. (1880) p. 529; *Mél. Biol.* x. p. 723; *Baker, Handb. Irideæ*, p. 29.

KANSUH: Tangut (*Przewalski*!). Herb. Kew.

12. **Iris Potanini**, *Maxim. in Bull. Acad. St. Pétersb.* xxvi. (1880) p. 528; *Mél. Biol.* x. p. 721; *Baker, Handb. Irideæ*, p. 27.

Iris flavissima, var. rupestris, *Ledeb. Fl. Alt.* i. p. 60.

KANSUH (*Potanin*!). Herb. Kew.

Dahuria, Altai, Mongolia.

13. **Iris Rossii**, *Baker, in Gard. Chron.* (1877) ii. p. 809; *Journ. Linn. Soc., Bot.* xvii. (1879) p. 387; *Handb. Irideæ*, p. 3; *Maxim. in Bull. Acad. St. Pétersb.* xxvi. (1880) p. 523; *Mél. Biol.* x. p. 714.

SHINGKING: Changdien (*Ross*, 160, 162!); ANWHEI: Nanking (*Faber*, 1542!); KIANGSI: Kiukiang (*Maries*!); COREA (*Carles*, 5!); Chemulpo (*Carles*!), Seoul (*Carles*!). Herb. Kew.

14. **Iris ruthenica**, *Dryand. in Ait. Hort. Kew.* ed. 2, i. p. 117; *Gawl. in Bot. Mag.* tt. 1123 *et* 1393; *Ledeb. Fl. Ross.* i. p. 55; *Maxim. Prim. Fl. Amur. Suppl.* pp. 477 et 485; *Bull. Acad. St. Pétersb.* xxvi. (1880) p. 516; *Mél. Biol.* x. p. 704; *Hance, in Journ. Bot.* xiii. (1875) p. 139; *Baker et S. Moore, in Journ. Linn. Soc., Bot.* xvii. (1879) p. 387; *Franch. Pl. David.* i. p. 297; *Baker, Handb. Irideæ*, p. 4.

Iris cæspitosa, *Pallas, in Spreng. et Link, Jahrb.* i. III. (1820) p. 71.

Ioniris ruthenica, *Klatt, in Bot. Zeit.* xxx. (1872) p. 502.

CHIHLI: Peking (*Bullock*, 234!), Jehol (*David*, 1741, ex *Franchet*), Sangyu (*David*, 2235, ex *Franchet*), Pohuashan (*Bretschneider* ex *Hance*), Kalgan (*Przewalski* ex *Maximowicz*); SHINGKING: Ngaiyang (*Ross*, 228!). Mus. Brit.; Herb. Kew.

North Asia.

Var. **nana**, *Maxim. in Bull. Acad. St. Pétersb.* xxvi. (1880) p. 516; *Mél. Biol.* x. p. 705.

CHIHLI: Peking, Lunzuanssy (*Tatarinow* ex *Maximowicz*), Pohuashan (*Bretschneider* ex *Maximowicz*); SHANSI (*Potanin*!). Herb. Kew.

South Mongolia.

15. **Iris sibirica**, var. **orientalis**, *Baker, in Journ. Linn. Soc., Bot.* xvi. (1877) p. 139; *Handb. Irideæ*, p. 9; *Maxim. in Bull. Acad. St. Pétersb.* xxvi. (1880) p. 519; *Mél. Biol.* x. p. 709.

Iris orientalis, *Thunb. in Trans. Linn. Soc.* ii. (1797) p. 328.

Iris sibirica, var. sanguinea, *Gawl. in Bot. Mag.* t. 1604.

Iris hæmatophylla, *Fisch. in Sweet, Brit. Flow. Gard.* t. 118.

Iris nertchinskia, *Lodd. Bot. Cab.* t. 1843.

SHINGKING: Moukden (*James*! *Webster*!), Toonghwahien (*Ross*, 48!); SZECHUEN (*Pratt*, 247!); COREA: Tsusima (*Wilford*, 752!), Chemulpo (*Carles*, 177!). Mus. Brit.; Herb. Kew.

Japan, Eastern Siberia.

16. **Iris songarica**, var. **gracilis**, *Maxim. in Bull. Acad. St. Pétersb.* xxvi. (1880) p. 510; *Mél. Biol.* x. p. 696; *Baker, Handb. Irideæ*, p. 5.

KANSUH: Tangut (*Przewalski*!). Herb. Kew.

17. **Iris speculatrix**, *Hance, in Journ. Bot.* xiii. (1875) p. 196, *and* xiv. (1876) p. 75; *Baker, in Gard. Chron.* ser. ii. vi. (1876)

p. 36; *and Bot. Mag.* t. 6306; *Maxim. in Bull. Acad. St. Pétersb.* xxvi. (1880) p. 538; *Mél. Biol.* x. p. 736.

HONGKONG: between Victoria Peak and Mount Davis (*Ford* in Herb. Hance, 783 A! 18465!); KWANGTUNG: Canton, Lienchau (*Lamont*!), Lantao (*Ford*, 53!). Mus. Brit.; Herb. Kew.

18. **Iris tectorum**, *Maxim. in Bull. Acad. St. Pétersb.* xv. (1871) p. 380; *Mél. Biol.* vii. p. 563, *et* x. p. 736; *Gartenfl.* t. 716; *Hook. f. Bot. Mag.* t. 6118; *Fl. des Serres*, t. 2287; *Baker, in Gard. Chron.* ser. ii. vi. (1876) p. 37; *Handb. Irideæ*, p. 23; *Franch. et Savat. Enum. Pl. Jap.* ii. p. 41; *Franch. Pl. David.* i. p. 297; *Kanitz, Bot. Res. Széch. Centr. As. Exped.* p. 59.

Iris chinensis, *Bunge, Enum. Pl. Chin. Bor.* p. 64, *non Curt.*

Iris fimbriata, *Klatt, in Linnæa*, xxxiv. (1865–66) p. 619, *partim.*

Iris cristata, *Miq. in Ann. Mus. Bot. Lugd.-Bat.* iii. p. 141, *non Soland.*

Iris tomiolopha, *Hance, in Journ. Bot.* x. (1872) p. 229.

SHANTUNG (*Maingay*, 742!); HUPEH: Changlo (*Henry*, 6330!), Ichang (*Henry*, 3970!), Patung (*Henry*, 3781!); HUNAN (*Hancock*, 80!); SHENSI (*Piasezki* ex *Maximowicz*, *David* ex *Franchet*); KANSUH (*Piasezki* ex *Maximowicz*); SZECHUEN (*Lóczy*, 122, ex *Kanitz*). Mus. Brit.; Herb. Kew.

Japan.

This species has been cultivated about Peking and Canton.

19. **Iris tenuifolia**, *Pall. Reise*, iv. p. 683, t. 7. fig. 2; *Maxim. Ind. Fl. Mongol. in Prim. Fl. Amur.* p. 485; *in Bull. Acad. St. Pétersb.* xxvi. (1880) p. 511; *Mél. Biol.* x. p. 697; *Baker, in Gard. Chron.* ser. ii. vi. (1876) p. 144; *Journ. Linn. Soc., Bot.* xvi. (1877) p. 138; *Handb. Irideæ*, p. 4.

Neubeckia tenuifolia, *Alefeld, in Bot. Zeit.* xxi. (1863) p. 297.

Joniris tenuifolia, *Klatt, in Bot. Zeit.* xxx. (1872) p. 502.

KANSUH (*Potanin*! *Przewalski* ex *Maximowicz*). Herb. Kew.

Central Asia.

20. **Iris Tigridia**, *Bunge, in Ledeb. Fl. Alt.* i. p. 60; *Ledeb. Icon. Pl. Ross.* iv. p. 342; *Maxim. in Bull. Acad. St. Pétersb.* xxvi. (1880) p. 530; *Mél. Biol.* x. p. 722; *Franch. Pl. David.* i. p. 297; *Baker, Handb. Irideæ*, p. 28.

CHIHLI: Jehol (*David*, 1696, ex *Franchet*); KANSUH (*Potanin*!). Herb. Kew.

Altai, Eastern Siberia, and Mongolia.

1. **Belamcanda punctata,** *Moench, Meth.* p. 529 (1794); *Franch. Pl. David.* i. p. 299.

Ixia chinensis, *Linn. Sp. Pl.* ed. 1, p. 36; *Curt. Bot. Mag.* t. 171; *Lour. Fl. Cochinch.* p. 36.

Belamcanda chinensis, *Leman, in Red. Lil.* t. 121 (1807); *Baker, in Journ. Linn. Soc., Bot.* xvi. (1877) p. 113; *Baker, Handb. Irideæ,* p. 117; *Hook. f. Fl. Brit. Ind.* vi. p. 277.

Moræa chinensis, *Thunb. Fl. Jap.* p. 34.

Pardanthus chinensis, *Ker, in Kon. Ann. Bot.* i. (1805) p. 246; *Benth. Fl. Hongk.* p. 365; *Fl. des Serres,* t. 1632; *Hance, in Journ. Bot.* xii. (1874) p. 262; *Debeaux, Fl. Tchéf.* p. 133; *Franch. in Mém. Soc. Sc. Nat. Cherbourg,* xxiv. (1882) p. 256.

SHANTUNG: Chefoo (*Fauvel* ex *Franchet*); FORMOSA (*Oldham,* 642! *Watters,* 70! *Wilford,* 550! *A. Henry,* 968!); KIANGSI: Kiukiang (*Shearer*! *Möllendorf* ex *Hance, David* ex *Franchet*); HUPEH: Ichang (*Henry,* 96!), Patung (*Henry,* 4905!), Nanto (*Henry,* 2112 A!); SHENSI (*David* ex *Franchet*); SZECHUEN: Chung Ching (*Bourne,* 207!); HONGKONG (*Champion,* 284! *Hance,* 718! *Lamont,* 783!); COREA: Chemulpo (*Carles,* 193! *Wykeham Perry*!). Mus. Brit.; Herb. Kew.

Mandshuria, Japan, North India.

139. AMARYLLIDEÆ.

(By C. H. WRIGHT, A.L.S.)

1. **Hypoxis aurea,** *Lour. Fl. Cochinch.* p. 200; *Hance, in Journ. Bot.* viii. (1870) p. 276, *et* 1878, p. 111; *Baker, in Journ. Linn. Soc., Bot.* xvii. (1877) p. 108; *Maxim. in Engl. Bot. Jahrb.* vi. (1885) p. 75; *Hook. f. Fl. Brit. Ind.* vi. p. 277; *Franch. in Bull. Soc. Bot. France,* xlvi. (1901) p. 214.

Hypoxis curculigoides, *Wall. Cat.* n. 5164.

Hypoxis minor, *D. Don, Prodr. Fl. Nepal.* p. 53; *Royle, Ill. Bot. Himal.* p. 376, t. 91. fig. 3.

Curculigo graminifolia, *Nimmo, in J. Graham, Bomb. Cat.* p. 215; *Dalzell & Gibson, Bombay Flora,* p. 276.

Hypoxis Franquevillei, *Miq. Fl. Ind. Bat.* iii. p. 586.

HUPEH: South Patung (*Henry,* 6242!); FOKIEN: Kuatun (*De la Touche* ex *Franchet*); KWANGTUNG: Canton (*Sampson,* 1624! et in hb. Hance, 16516!); LUCHU ARCHIPELAGO (*Wright,* 344!). Mus. Brit.; Herb. Kew.

North India, Cochin China, Java, Japan.

1. **Curculigo orchioides**, *Gaertn. Fruct. et Sem.* i. p. 63, fig. 11; *Roxb. Pl. Corom.* i. p. 14, t. 13; *Ait. Hort. Kew.* ed. 2, ii. p. 253; *Roem. et Schult. Syst. Veget.* vii. p. 756.

Curculigo ensifolia, *R. Br. Prodr.* p. 290; *Maxim. Fl. As. Or. Fragm.* p. 61; *Maxim. in Engl. Bot. Jahrb.* vi. (1885) p. 75.

Curculigo stans, *Labill. Sert. Austr. Caled.* i. p. 18, t. 24.

Curculigo malabarica, *Wight, Ic. Pl. Ind. Or.* t. 2043.

Curculigo orchioides, var. minor, *Benth. Fl. Hongk.* p. 366; *Bot. Mag.* t. 1076.

Hypoxis minor, *Seem. Bot. Voy. 'Herald,'* p. 419.

Hypoxis orchioides, *Kurz, in Ann. Mus. Bot. Lugd.-Bat.* iv. p. 177.

CHEKIANG: Ningpo (*Hancock* ex *Maximowicz*); SZECHUEN: Min River (*Faber*, 959!); KWANGTUNG: Lofaushan (*Ford*!), Canton (*Hance* ex *Maximowicz*); HONGKONG (*Champion*, 533!); LUCHU ARCHIPELAGO (*Wright*, 343!). Herb. Kew.

Japan, Northern India to Australia.

A very variable species, with extreme forms, differing much in size and in the breadth of the leaves, yet presenting every stage of transition, so that no satisfactory line can be drawn between them.

2. **Curculigo recurvata**, *Dryand. in Ait. Hort. Kew.* ed. 2, ii. p. 253; *Wall. Cat.* n. 5159; *Bot. Reg.* t. 770; *Roxb. Fl. Ind.* ii. p. 145; *Miq. Fl. Ind. Bat.* iii. p. 585; *Maxim. in Engl. Bot. Jahrb.* vi. (1885) p. 75; *Hook. f. Fl. Brit. Ind.* vi. p. 278.

Molineria recurvata, *Herb. Amaryll.* p. 84; *Kurz, in Ann. Mus. Bot. Lugd.-Bat.* iv. p. 175; *Baker, in Journ. Linn. Soc., Bot.* xvii. (1879) p. 120; *Hance, in Journ. Bot.* xxi. (1883) p. 358.

Molineria capitulata, *Herb. Amaryll.* p. 84.

Molineria plicata, *Colla, Hort. Rip. App.* ii. p. 333, t. 18.

Leucojum capitulatum, *Lour. Pl. Cochinch.* p. 199.

CHEKIANG: Ningpo (*Hancock* ex *Maximowicz*); FORMOSA: Tamsui (*Oldham*, 645!); KWANGTUNG: Lofaushan (*Ford*, 61!), Siushi-Lienchan (*B. C. Henry*!), Canton (*Hance* ex *Maximowicz*); HONGKONG: Mount Parker (*Ford*, 56!). Mus. Brit.; Herb. Kew.

India, Ceylon, Malaya, Borneo, Queensland.

1. **Narcissus Tazetta**, var. **chinensis**, *M. Roem. Syn. Monog.* fasc. iv. p. 223; *Miq. in Ann. Mus. Bot. Lugd.-Bat.* ii. p. 140; *Franch. et Savat. Enum. Pl. Jap.* ii. p. 45; *Franch. Fl. Tchéf.*

p. 256; *Debeaux, Fl. Tchéf.* p. 133; *Fl. Shangh.* p. 63; *Maxim. in Engl. Bot. Jahrb.* vi. (1885) p. 75.

CHIHLI: Peking (*Bretschneider* ex *Maximowicz*); SHANTUNG: Chefoo (*Debeaux, Fauvel* ex *Franchet*); KIANGSU: Shanghai (*Debeaux*), Saddle Island (*Weyrich* ex *Maximowicz*).

Japan.

1. **Crinum asiaticum**, var. **declinatum**, *Herb. Amaryll.* p. 244; *Kunth, Enum.* v. p. 549; *Miq. in Ann. Mus. Bot. Lugd.-Bat.* ii. p. 139; *Franch. et Savat. Enum. Pl. Jap.* ii. p. 45; *Maxim. in Engl. Bot. Jahrb.* vi. (1885) p. 77; *Baker, Handb. Amaryll.* p. 75.

Crinum declinatum, *Herb. in Bot. Mag.* t. 2231.

Crinum latifolium, *Thunb. Fl. Jap.* p. 131.

Crinum asiaticum, *Benth. Fl. Hongk.* p. 366.

HONGKONG: Saywan (*Champion* ex *Benth.*), Skeko (*Hance*, 1332!). Mus. Brit.

Var. **sinicum**, *Baker, Handb. Amaryll.* p. 75.

Crinum sinicum, *Roxb.* ex *Herb. in Bot. Mag.* sub t. 2121, p. 7; *Herb. Amaryll.* p. 244; *Kunth, Enum.* v. p. 550; *Maxim. in Engl. Bot. Jahrb.* vi. (1885) p. 77.

FORMOSA: Tamsui (*Hancock*, 20!); HAINAN: Hoihow (*Hancock*, 19!). Herb. Kew.

Var. **anomalum**, *Herb. Amaryll.* p. 244; *Kunth, Enum.* v. p. 549; *Baker, Handb. Amaryll.* p. 75.

Crinum anomalum, *Herb. in Bot. Mag.* sub t. 2120, p. 5; *Herb. App.* p. 22.

Crinum plicatum, *Livingst.* ex *Hook. in Bot. Mag.* t. 2908.

CHINA (*Livingstone* ex *Hooker*).

2. **Crinum Loureirii**, *M. Roem. Syn. Ensat.* fasc. iv. p. 85; *Kunth, Enum.* v. p. 581; *Maxim. in Engl. Bot. Jahrb.* vi. (1885) p. 77.

Crinum zeylanicum, *Lour. Fl. Cochinch.* p. 198, *nec Linn.*

CHINA (ex *Loureiro*).

Cochinchina.

This species has not been found by recent collectors. From the figure in Rumphius's Hort. Amboin. viii. p. 306, t. 105 (quoted by Loureiro), it would appear to be closely allied to *Crinum zeylanicum*, Linn.

1. **Lycoris aurea**, *Herb. Append.* p. 20; *Kunth, Enum.* v. p. 545; *Miq. in Ann. Mus. Bot. Lugd.-Bat.* ii. p. 139; *Hance, in Journ. Bot.* xxi. (1874) p. 262; *Franch. et Savat. Enum. Pl. Jap.* ii. p. 44; *Franch. Pl. David.* i. p. 299; *Maxim. in Engl. Bot. Jahrb.* vi. (1885) p. 79; *Baker, Handb. Amaryll.* p. 40.

Amaryllis aurea, *L'Hérit. Sert. Angl.* p. 14, t. 15 *b*; *Jacq. Hort. Schoenb.* t. 73; *Bot. Mag.* t. 409; *Redouté, Lil.* t. 61; *Bot. Reg.* t. 611; *Roxb. Fl. Ind.* ii. p. 140.

Nerine aurea, *Bury, Hexand.* t. 3.

KIANGSU: Shanghai (*Maingay*, 426!); KIANGSI: Kiukiang (*Bullock*, 251! *Carles*, 499, 505! *Moellendorff*! *David*, 804, ex *Franchet*); FORMOSA (*Hancock*, 3!), Tamsui (*Oldham*, 643!); HUPEH: Ichang (*Henry*, 2326, 2326 B!). Mus. Brit.; Herb. Kew.

Cultivated in Japan.

2. **Lycoris radiata**, *Herb. App.* p. 20; *Kunth, Enum.* v. p. 546; *Hance, in Journ. Bot.* xxi. (1874) p. 262; *Franch. et Savat. Enum. Pl. Jap.* ii. p. 44; *Maxim. in Engl. Bot. Jahrb.* vi. (1885) p. 78; *Baker, Handb. Amaryll.* p. 40.

Amaryllis radiata, *L'Hérit. Sert. Angl.* p. 16; *Bot. Reg.* t. 596; *Andr. Bot. Rep.* t. 95.

Amaryllis sarniensis, *Thunb. Fl. Jap.* p. 131, *non Linn.*; *Lour. Fl. Cochinch.* p. 200.

Nerine japonica, *Miq. Ann. Mus. Bot. Lugd.-Bat.* ii. p. 139; *Franch. et Savat. Enum. Pl. Jap.* ii. p. 44.

KIANGSU: Fengwangshan (*Poli* ex *Franchet*); CHEKIANG: Ningpo (*Hancock*, 33!); KIANGSI: Kiukiang (*Shearer*! *Bullock*, 88!); FOKIEN: Chinchew (*Fortune*, 148!); HUPEH: Ichang (*A. Henry*, 428, 1094, 2326 A, 2326 C!); KWANGSI (*Graves*!). Mus. Brit.; Herb. Kew.

Japan.

3. **Lycoris sanguinea**, *Maxim. in Engl. Bot. Jahrb.* vi. (1885) p. 80; *Baker, Handb. Amaryll.* p. 40.

CHEKIANG: Ningpo (*Forbes* ex *Maximowicz*). Cultivated.

Japan.

4. **Lycoris squamigera**, *Maxim. in Engl. Bot. Jahrb.* vi. (1885) p. 79; *Baker, Handb. Amaryll.* p. 40.

CHIHLI: Peking (*Bretschneider* ex *Maximowicz*); KIANGSU: Shanghai (*Carles*, 417!); CHEKIANG: Ningpo (*Hancock*, 34!). Herb. Kew.

Japan.

Perhaps occurring in China only as a cultivated plant.

5. **Lycoris straminea**, *Lindl. in Journ. Hort. Soc. Lond.* iii. (1848) p. 76; *Walp. Ann.* i. p. 834 *et* iii. p. 616; *Kunth, Enum.* v. p. 546; *Baker, Handb. Amaryll.* p. 40.

CHINA (*Fortune* ex *Lindley*).

1. **Pancratium biflorum**, *Roxb. Fl. Ind.* ii. p. 125; *Kunth, Enum.* v. p. 661; *Benth. Fl. Hongk.* p. 367; *Maxim. in Engl. Bot. Jahrb.* vi. (1885) p. 81; *Hook. f. Fl. Brit. Ind.* vi. p. 285; *Baker, Handb. Amaryll.* p. 119.

HONGKONG (*Champion, Hance* ex *Bentham*).

Northern India.

Agave americana, Linn., *Agave lurida*, Jacq., and *Pancratium zeylanicum*, Linn., have been cultivated in China, but not found in a wild state.

140. TACCACEÆ.

(By C. H. WRIGHT, A.L.S.)

1. **Tacca pinnatifida**, *Forst. Char. Gen.* p. 70, t. 35; *Lour. Fl. Cochinch.* p. 300, *excl. syn.* Tacca sativa, *Rumph.*

CHINA ex *Loureiro.*

This has not been gathered by any recent collector, and its sole claim to be regarded as a Chinese plant rests on the statement of Loureiro.

Tropical Asia, Africa, Australia, and Polynesia.

1. **Schizocapsa plantaginea**, *Hance, in Journ. Bot.* xix. (1881) p. 292.

KWANGTUNG: North River, Canton (*Faber* ex *Hance, Ford,* 376! *Gerlash*!), Lienchau (*B. C. Henry*!). Mus. Brit.; Herb. Kew.

141. DIOSCOREACEÆ.

(By C. H. WRIGHT, A.L.S.)

1. **Dioscorea alata**, *Linn. Sp. Pl.* ed. 1, p. 1033; *Lour. Fl. Cochinch.* p. 623; *Kunth, Enum.* v. p. 387; *Wight, Ic. Pl. Ind. Or.* t. 810; *Hook. f. Fl. Brit. Ind.* vi. p. 296; *Bretschneider, Early Res.* p. 177.

CHINA (ex *Loureiro*).

Tropical India.

2. **Dioscorea Batatas**, *Decne. in Rev. Hort.* (1854) p. 243, and (1855) p. 69 cum icone; *Benth. Fl. Hongk.* p. 368; *Makino, Phan. Jap. Ic. Ill.* tt. 93–95.

CHIHLI: Peking (*Bretschneider*!); KIANGSU: Shanghai (*Faber*!); KIANGSI: Kiukiang (*Shearer*! *Bullock*, 246!); KWANGTUNG: Canton (*Sampson*, 13760!); HONGKONG (*Wright*!), Lantao Island (*Lamont*, 788!). Mus. Brit.; Herb. Kew.

3. **Dioscorea bulbifera**, *Linn. Sp. Pl.* ed. 1, p. 1033; *Miq. Journ. Bot. Néerl.* i. p. 90.

KWANGTUNG (*Krone* ex *Miquel*).

Tropical Asia.

4. **Dioscorea dæmona**, var. **reticulata**, *Hook. f. Fl. Brit. Ind.* vi. p. 289.

Dioscorea macrocarpa, *Wall. Cat.* n. 5100.

FORMOSA: Takow (*A. Henry*, 1875!); HAINAN (*A. Henry*, 8106, 8288, 8725!). Herb. Kew.

Malay Peninsula.

5. **Dioscorea Decaisneana**, *Carr. in Rev. Hort.* (1865) p. 111, cum icone; *Chappellier, in Bull. Soc. Acclim.* v. (1888) pp. 373–5; *Bretsch. Hist. Europ. Bot. Disc.* p. 832.

CHINA: without locality (ex *Carrière*).

6. **Dioscorea doryophora**, *Hance, in Ann. Sc. Nat.* 5me sér. v. (1866) p. 244.

Dioscorea Swinhoei, *Rolfe, in Journ. Bot.* xx. (1882) p. 359.

FORMOSA (*Swinhoe*, 33! 7573 *in Herb. Hance*! *Playfair*!), Takow (*A. Henry*, 1922!), Bankinsing (*A. Henry*, 878, 1672!). Herb. Kew.

7. **Dioscorea glabra**, *Roxb. Hort. Beng.* p. 72; *Fl. Ind.* iii. p. 804; *Kunth, Enum. Pl.* v. p. 383; *Hook. f. Fl. Brit. Ind.* vi. p. 294.

Dioscorea sagittata, *Royle, ex Hook. f. l. c.*

KIANGSI: Lushan Mountains (*Bullock*, 245!); KWANGTUNG: Lantao (*Ford*, 6!), mainland opposite Hongkong (*Ford*, 183!); HAINAN (*A. Henry*, 8407, 8690!).

From the sub-tropical Himalayas southwards to the Concan and Malay Peninsula.

8. **Dioscorea japonica,** *Thunb. Fl. Jap.* p. 151; *Miq. in Ann. Mus. Bot. Lugd.-Bat.* iii. p. 159 excl. syn.; *Franch. et Savat. Enum. Pl. Jap.* ii. p. 47 excl. syn.; *Somoku Zusetsu*, xx. tt. 56–7.

CHEKIANG: Ningpo (*Faber*, 80!); KIANGSI: Kiukiang (*Shearer*!); FORMOSA (*Oldham*, 573! *Wilford*, 561!), Tamsui (*Watters*, 37!); KWANGTUNG: Lofaushan (*Ford*, 330!). Mus. Brit.; Herb. Kew.

"Shanyotsai, a valuable medicine."—*Watters*.

Japan.

9. **Dioscorea oppositifolia,** *Linn. Sp. Pl.* ed. 1, p. 1033; *Lour. Fl. Cochinch.* p. 624; *Wight, Ic. Pl. Ind. Or.* t. 813; *Kunth, Enum. Pl.* v. p. 390; *Benth. Fl. Hongk.* p. 367; *Hook. f. Fl. Brit. Ind.* vi. p. 292.

FORMOSA: Bankinsing (*A. Henry*, 1673!); HONGKONG (*Wright*, 528! *Ford*, 24! *Lamont*, 787!), Tytam (*Hance*, 458!). Mus. Brit.; Herb. Kew.

Tropical India.

10. **Dioscorea polystachya,** *Turcz. in Bull. Soc. Nat. Mosc.* (1837) no. 7, p. 158; *Kunth, Enum. Pl.* v. p. 403; *Maxim. Ind. Fl. Pek. in Prim. Fl. Amur.* p. 478.

N. CHINA (*Kirilow*, 198, ex *Turczaninow*); CHIHLI: Peking (ex *Maximowicz*).

I have seen no specimen of this species, which, from Turczaninow's brief description, must be very closely allied to *D. doryophora*, Hance. The following may belong here:—Ichang (*A. Henry*, 1538, 2023!).

11. **Dioscorea quinqueloba,** *Thunb. Fl. Jap.* p. 150, non *Vell.*; *Maxim. Ind. Fl. Pek. in Prim. Fl. Amur.* p. 478; *Kunth, Enum. Pl.* v. p. 350; *Franch. et Savat. Enum. Pl. Jap.* ii. p. 46; *Franch. Pl. David.* i. p. 300; *Banks, Icon. Kæmpf.* t. 15; *Houtt. Handl.* xi. p. 358, t. 74. figg. 1–2; *Miq. in Ann. Mus. Bot. Lugd.-Bat.* iii. p. 159.

CHIHLI: Peking (*Bretschneider*, 732! *David*, 14560!); SHINGKING: between Tungcheshien (*James*!); HUPEH: Chienshih (*A. Henry*, 5870, 5870 B!), Patung (*A. Henry*, 4769, 7358!), Ichang (*A. Henry*, 183!). Mus. Brit.; Herb. Kew.

Japan and Amur.

12. **Dioscorea rhipogonioides,** *Oliver, in Hook. Ic. Pl.* t. 1868.

FORMOSA: South Cape (*A. Henry*, 589, 970, 1297 !), Bankinsing (*A. Henry*, 105 !); HONGKONG (*Ford*, 10, 54/88 !). Herb. Kew.

"The root of this climber is called Shulang, and is much used for dyeing and tanning nets, &c."—*A. Henry.*

13. **Dioscorea sativa,** *Linn. Sp. Pl.* ed. 1, p. 1033, *& Hort. Cliff.* t. 28; *Benth. Fl. Hongk.* p. 368; *Franch. et Savat. Enum. Pl. Jap.* ii. p. 47; *Maxim. Ind. Fl. Pek. in Prim. Fl. Amur.* p. 478; *Debeaux, Fl. Shangh.* p. 65, *& Flor. Tchef.* p. 140; *Duthie, Field Crops*, t. 80; *Hook. f. Fl. Brit. Ind.* vi. p. 295.

SHANTUNG: Chefoo, cult. (ex *Debeaux*); KIANGSU: Shanghai, cult. (ex *Debeaux*); FORMOSA: Tamsui (*Oldham*, 574 !), Takow (*A. Henry*, 1871 A & B !), South Cape (*A. Henry*, 1210 !), Apes Hill (*Playfair*, 188 !); HUPEH: Ichang (*A. Henry*, 3641, 3641 A, 4193 !), Nanto (*A. Henry*, 2068 !); SZECHUEN: Mount Omei (*Faber*, 281 !); KWANGTUNG: Lofaushan (*Ford* !): HONGKONG (*Hance* ex *Bentham*, *Lamont*, 789 !). Mus. Brit.; Herb. Kew.

Widely dispersed through the tropics of both hemispheres.

14. **Dioscorea spinosa,** *Roxb. ex Wall. Cat.* n. 5103; *Hook. f. Fl. Brit. Ind.* vi. p. 291.

Dioscorea tiliæfolia, *Kunth, Enum. Pl.* v. p. 401.

FORMOSA: Bankinsing (*A. Henry*, 856 !). Herb. Kew.

Tropical India, Malaya, and Tropical America.

15. **Dioscorea zingiberensis,** *Wright*, n. sp.

Caulis suffruticosus, tenuis, levis, inermis. *Folia* alterna, 2 poll. longa, 5–7-nervia, 3-(rarissime 5-)loba; lobus centralis triangularis, mucronatus; lobi laterales rotundati plus minusve deflexi; petiolus 1 poll. longus. *Spicæ masculæ* solitariæ petiolis paulo longiores. *Perianthium* 1 lin. diam., lobis 6 ovatis, rarius emarginatis. *Stamina* 6; antheræ extrorsæ, latæ. *Racemi feminei* solitarii. *Perianthii* lobi 6, late ovati, imbricati. *Staminodia* minuta. *Stylus* 3-fidus. *Ovarium* oblongum, triloculare. *Fructus* 1 poll. diam., æqualiter trialatus. *Semen* ala membranacea circumdatum.

HUPEH: Ichang (*A. Henry*, 407, 1520, 1621 !). Mus. Brit.; Herb. Kew.

This differs from *D. japonica*, Thunb., in its alternate leaves, and from *D. doryophora*, Hance, in its solitary male spikes.

"Creeper, with dark red flowers and green fruit, growing many feet in length. The root is eaten in winter. The local name is 'Hjang Chiang,' *i. e.* yellow ginger."—*A. Henry.*

16. **Dioscorea** sp.

COREA: Chemulpo (*Carles*, 178 !). Herb. Kew.

This is probably a new species, but the material is insufficient for specific description. The lower leaves are verticillate, with slender petioles as long as the cordate acute laminæ. The male spikes are solitary in the axils of the alternate upper leaves.

17. **Dioscorea** sp.

HUPEH: Tunghu (*A. Henry*, 6419 !), Changyang (*A. Henry*, 7501 !), Nanto (*A. Henry*, 2666 ! 4486 !); SZECHUEN: North Wushan (*A. Henry*, 7103 !). Herb. Kew.

Resembling *D. pentaphylla*, Linn., and *D. tomentosa*, Linn., but not determinable, the specimens bearing leaves and very young fruit only.

142. ROXBURGHIACEÆ.

(By C. H. WRIGHT, A.L.S.)

1. **Stemona acuta**, *C. H. Wright, in Journ. Linn. Soc., Bot.* xxxii. (1896) p. 493.

KWANGTUNG (*Ford*, 283 !). Herb. Kew.

Differs from *Stemona japonica*, Franch. & Savat., in having very acute leaves with cordate bases, and in the peduncles not being adnate to the petiole.

2. **Stemona erecta**, *C. H. Wright, in Kew Bulletin* (1895), p. 117; *Hook. Ic. Pl.* t. 2389; *Journ. Linn. Soc., Bot.* xxxii. (1896) p. 493.

ANWHEI: Nanking (*Faber*, 1541 !). Herb. Kew.

A species with erect stems and verticillate leaves, somewhat resembling *Stemona sessilifolia*, Miq., figured in the 'Somoku Zusetsu,' vol. ii. t. 55, but with more flowers on shorter pedicels. The anthers are appendiculate and the ovules erect, as in the other species of *Stemona*.

3. **Stemona japonica**, *Franch. et Savat. Enum. Pl. Jap.* ii. p. 92; *C. H. Wright, in Journ. Linn. Soc., Bot.* xxxii. (1896) p. 493.

Roxburghia japonica, *Blume, Enum. Pl. Jap.* i. p. 9, *non Miq. Somoku Zusetsu,* ii. t. 56.

Roxburghia ruscifolia, *Zucc. ex Schnitzl. Icon.* t. 56 *b.* fig. 17.

Kiangsu: Hills near Shanghai (*Carles*, 357!). Herb. Kew.

Japan.

4. **Stemona parviflora**, *C. H. Wright, in Journ. Linn. Soc., Bot.* xxxii. (1896) p. 496.

Hainan (*A. Henry*, 8698!). Herb. Kew.

This somewhat resembles *Roxburghia javanica*, var.? *australiana*, Benth. (Fl. Austral. vii. p. 1), but has much smaller, shortly pedicellate, flowers, with broadly ovate-lanceolate perianth-segments.

5. **Stemona tuberosa**, *Lour. Fl. Cochinch.* p. 404; *Hook. f. Fl. Brit. Ind.* vi. p. 298.

Roxburghia gloriosoides, *Roxb. Pl. Corom.* i. p. 29, t. 32, *non Zoll.*; *Schnitzl. Icon.* t. 56 *b.* fig. 1; *C. H. Wright, in Journ. Linn. Soc., Bot.* xxxii. (1896) p. 494.

Roxburghia viridiflora, *Smith, Exot. Bot.* i. p. 111, t. 57; *Griff. Notul.* i. p. 29, *Icon.* tt. 12–16 & 62. fig. 2; *Wall. Pl. As. Rar.* iii. p. 49 t. 282.

Roxburghia Stemona, *Steud. Nom.* ed. 2, ii. p. 475.

Fokien: Amoy (*Swinhoe*!); Formosa: Bankinsing (*A. Henry*, 816!); Hupeh: Ichang (*A. Henry*, 566!). Mus. Brit.; Herb. Kew.

Northern India.

143. LILIACEÆ.

(By C. H. Wright, A.L.S.)

1. **Heterosmilax Gaudichaudiana**, *Maxim. in Bull. Acad. St. Pétersb.* xvii. (1872) p. 176 in obs.; *Mél. Biol.* viii. p. 415; *A. DC. Monogr. Phan.* i. p. 44, *cum. var.* hongkongensis, *A. DC.*

Smilax Gaudichaudiana, *Kunth, Enum. Pl.* v. p. 252; *Benth. Fl. Hongk.* p. 370.

Smilax hongkongensis, *Seem. Bot. Voy. 'Herald,'* p. 420.

Hongkong (*Hance*, 858! *Wright*, 535! *Urquhart*! *Seemann*, 2401 !); South China (*Gaudichaud, Ivan, Callery*, 104, ex *A. DeCandolle*). Herb. Kew.

2. **Heterosmilax japonica,** *Kunth, Enum. Pl.* v. p. 270; *Maxim. in Bull. Acad. St. Péterb.* xvii. (1872) p. 175; *Mél. Biol.* viii. p. 415; *Franch. et Savat. Enum. Pl. Jap.* ii. p. 50; *A. DC. Monogr. Phan.* i. p. 43.

This species, which is cultivated in Japan, is said to have been introduced from China, but no Chinese specimens are known to exist.

1. **Smilax calophylla,** *Wall.*, var. **concolor,** *C. H. Wright.* Folia oblongo-lanceolata, acuminata, trinervia, 4 poll. longa, 1 poll. lata, concoloria.

Kiangsi: Kiukiang (*Shearer*! *Bullock*, 89 !).

This differs from the type in the leaves not being glaucous beneath and in the less prominent veins.

2. **Smilax China,** *Linn. Sp. Pl.* ed. 1, p. 1029; *Thunb. Fl. Jap.* p. 152; *Lour. Fl. Cochinch.* p. 622; *Hance, in Journ. Linn. Soc., Bot.* xiii. (1872) p. 130; *Franch. et Savat. Enum. Pl. Jap.* ii. p. 49; *Franchet, in Mém. Soc. Sc. Nat. Cherbourg*, xxiv. (1882) p. 258; *Swinhoe, List of Formosa Plants*, no. 191; *Maxim. Mél. Biol.* viii. p. 408; *A. DC. Monogr. Phan.* i. p. 46.

Smilax ferox, *Wall. Cat.* no. 5119; *Benth. Fl. Hongk.* p. 370; *Walp. Ann.* vi. p. 145; *S. Moore, in Journ. Bot.* xvi. (1878) p. 138; *Hook. f. Fl. Brit. Ind.* vi. p. 307.

Smilax japonica, *A. Gray, in Narrative of Perry's Exped.* ii. p. 320, *et Mem. Amer. Acad.* vi. (1857) p. 412.

Coprosmanthus japonicus, *Kunth, Enum. Pl.* v. p. 268.

Shantung (*Maingay*, 130 !), Chefoo (*Faber* ! *Fauvel* ex *Franchet*); Chekiang: Taihoo Lake (*Carles*, 209 !), Chusan (*Horne*!), Ningpo (*Horne* !); Kiangsi: Kiukiang (*Bullock*, 254 ! *Shearer* ! *Maries* !); Fokien: Amoy (*Fortune*, 71 !), Foochow (*Popow* !); Formosa (*Swinhoe*), Tamsui (*Oldham*, 571 !); Hupeh: Ichang (*Henry*, 1267, 466, 1177, 1197, 1208, 1219, 1222, 2943 !), Patung (*Henry*, 1417, 1775 !); Szechuen: Mount Omei (*Faber*, 125 !); Kwangtung (*Krone* ex *Miquel*), Macao (*Abel* !), Kowlung Hills (*Lamont*, 783 !); Hongkong (*Wilford*, 351 ! *Hance*, 1025 ! *Wright*, 534 ! *Harland*, 629 !); Kwangsi (*Playfair* !); Hainan

(*Henry*, 8520, 8538 !); COREA (*Wilford*, 684! *Wykeham Perry*, 58, 108 !); LUCHU ARCHIPELAGO (*Wright* !). Mus. Brit.; Herb. Kew.

3. **Smilax Davidiana**, *A. DC. Monogr. Phan.* i. p. 104; *Franchet, Pl. David.* p. 300.

KIANGSI (*David* ex *De Candolle*).

4. **Smilax** (§ **Eusmilax**) **flaccida**, *C. H. Wright, in Kew Bulletin* (1895), p. 118.

HUPEH: Ichang (*A. Henry*, 3630, 3630 A, 3630 B !). Herb. Kew.

The leaves of this plant somewhat resemble those of *S. parvifolia*, Wall., but the stem has not the same zigzag habit.

5. **Smilax glabra**, *Roxb. Fl. Ind.* iii. p. 792; *Seem. Bot. Voy. 'Herald,'* p. 420, t. 100; *Hance, in Journ. Bot.* x. (1872) p. 102; *Benth. Fl. Hongk.* p. 369; *A. DC. Monogr. Phan.* i. p. 60; *Hook. f. Fl Brit. Ind.* vi. p. 302.

KWANGTUNG: Canton (*Hance*, 10535 ! *Tate* !); HONGKONG (*Wright*, 532 ! *Seemann*, 2401 ! *Hinds* ! *Millett* !). Herb. Kew.

Northern India.

This is recorded by Hance as the source of the "China-root" of commerce.

6. **Smilax herbacea**, var. **acuminata**, *C. H. Wright. Folia* membranacea, ovato-lanceolata, acuminata, 4–5 poll. longa, 1½–2 poll. lata, 5–7-nervia, subtus tenuiter puberula; petiolus 1 poll. longus; stipulæ 6 lin. longæ, apice cirrhiferæ. *Pedunculus* 4 poll. longus; pedicelli 8 lin. longi.

HUPEH: Patung (*Henry*, 4002, 5600 B !). Herb. Kew.

Var. **angusta**, *C. H. Wright. Folia* membranacea, lanceolata, acuminata, pellucide lineolata, quinquenervia, 3 poll. longa, 1 poll. lata, glabra; petiolus 9 lin. longus; stipulæ cirrhiferæ. *Pedunculus* 1–1½ poll. longus.

HUPEH: Nanto (*A. Henry*, 5600 F !). Herb. Kew.

Var. **intermedia**, *C. H. Wright. Caulis* erectus, herbaceus. *Folia* ovata, acuta, basi cordata, 7–9-nervia, 4 poll. longa, 2 poll. lata; petiolus 1 poll. longus basi vaginatus; stipulæ cirrhiferæ.

Pedunculus 3 poll. longus, flores plures gerens. *Stamina* 6. *Ovula* geminata.

HUPEH: Chienshih (*A. Henry*, 5600 C !), Nanto (*Henry*, 4509 !); SZECHUEN: South Wushan (*A. Henry*, 5600 A & B !). Herb. Kew.

This appears to be intermediate between the American varieties *peduncularis* and *lasioneuron*. Dr. Henry's numbers 939, 2810, and 5600 H from Hupeh are probably mere broad-leaved forms of this variety.

Var. **nipponica**, *Maxim. in Bull. Phys.-math. Acad. Pétersb.* xvii. (1872) p. 174; *A. DC. Monogr. Phan.* i. p. 52.

Smilax nipponica, *Miq. in Versl. en Med. K. Akad. Wetensch.* ser. 2, ii. (1868) p. 87, *et Ann. Mus. Bot. Lugd.-Bat.* iii. p. 150.

SHINGKING: Kwandien Mountains (*Ross*, 79 !), Moukden (*James* !); KIANGSI: Kiukiang (*Maries* ! *Bullock*, 252 !); HUPEH: Changyang (*Henry*, 5600 K !); SZECHUEN: South Wushan (*Henry*, 5600 !); KWANGTUNG (*Ford*, 341 !). Herb. Kew.

Var. **oblonga**, *C. H. Wright.* *Folia* oblonga, acuta, 4½ poll. longa, 1½ poll. lata, septemnervia, glabra; petiolus 6 lin. longus, basi cirrhiferus. *Pedunculus* 3 poll. longus, glaber; pedicelli plures, 6 lin. longi. *Bacca* globosa, 6 lin. diam.; semina geminata.

HUPEH: Ichang (*Henry*, 5216 !). Herb. Kew.

Var. **pubescens**, *C. H. Wright.* *Caulis* suffrutescens, pilis rufescentibus pubescens. *Folia* ovato-lanceolata, 4 poll. longa, 2 poll. lata, quinquenervia; pagina superiora glabra, inferiora et petioli pubescens; petiolus 9 lin. longus, basi bicirrhiferus. *Pedunculus* 2 poll. longus; pedicelli 6 lin. longi, dense pubescentes. *Bacca* globosa, 6 poll. diam., nigra. *Semina* geminata.

HUPEH: Tunghu (*Henry*, 5600 K bis !). Herb. Kew.

7. **Smilax hypoglauca**, *Benth. Fl. Hongk.* p. 369; *A. DC. Monogr. Phan.* i. p. 61.

HONGKONG (*Wright*, 533 ! *Champion*, 2 ! *Wilford*, 103 ! *Urquhart*, 123 ! *Hinds* !); HAINAN (*A. Henry*, 8443, 8544 !). Herb. Kew.

8. **Smilax lævis**, var. **ophirensis**, *A. DC. Monogr. Phan.* i. p. 56.
KIANGSI: Kiukiang (*Shearer* !). Herb. Kew.

Var. **Parkii**, *A. DC. Monogr. Phan.* i. p. 57.
CHINA (*Park* ex *A. DC.*).

The type occurs in the Malay Peninsula and var. *ophirensis* in Sumatra.

9. **Smilax lanceæfolia**, var. **opaca**, *A. DC. Monogr. Phan.* i. p. 57.

Smilax lanceæfolia, *Seem. Bot. Voy. 'Herald,'* p. 420, t. 99: *Benth. Fl. Hongk.* p. 370; *Franchet, in Bull. Soc. Bot. France*, xlvi. (1901) p. 214.

FOKIEN: Kuatun (*De la Touche* ex *Franchet*); FORMOSA: Tamsui (*Oldham*, 329 !), Taiwan (*Playfair* !); HONGKONG (all collectors); HAINAN (*Swinhoe*). Mus. Brit.; Herb. Kew.

The type occurs in Northern India.

10. **Smilax** (§ **Eusmilax**) **megalantha**, *C. H. Wright, in Kew Bulletin* (1895), p. 118.

SZECHUEN (*Pratt*, 811 !), Mount Omei (*Faber*, 241 !). Herb. Kew.

This species somewhat resembles *Smilax stenopetala*, A. Gr., but differs in the inflorescence, which, instead of arising directly from the axil of a mature leaf, consists of a subumbellate raceme, borne in the axil of a very young leaf (rarely an inch long) situated on an axillary branch about four inches long, at the base of which a large bud-scale persists opposite to the leaf-sheath.

11. **Smilax menispermoidea**, *A. DC. Monogr. Phan.* i. p. 108.
HUPEH: Patung (*Henry*, 4679 !). Herb. Kew.
Sikkim.

12. **Smilax microphylla**, *C. H. Wright, in Kew Bulletin* (1895), p. 117.

HUPEH: Ichang (*Henry*, 1521, 3089, 3089 *a*, 3980, 3996, 4410 !). Herb. Kew.

This appears to be related to *Smilax obtusa*, Benth., from Mexico. It can be distinguished from the other Chinese species by its small, glaucous, somewhat coriaceous leaves.

13. **Smilax Oldhami,** *Miq. in Versl. en Med. K. Akad. Wetensch.* ser. 2, ii. (1868) p. 86; *Miq. in Ann. Mus. Bot. Lugd.-Bat.* iii. p. 150; *A. DC. Monogr. Phan.* i. p. 53.

Smilax herbacea, *var.* Oldhami, *Maxim. in Bull. Acad. St. Pétersb.* xvii. (1872) p. 174; *Mél. Biol.* x. p. 413; *Franch. et Savat. Enum. Pl. Jap.* ii. p. 48.

COREAN ARCHIPELAGO (*Oldham*, 887, 997! *Perry*, 53!). Herb. Kew.

Japan.

Var. **ussuriensis,** *A. DC. Monogr. Phan.* i. p. 54; *Franch. in Mém. Soc. Sc. Nat. Cherbourg*, xxiv. (1882) p. 257.

SHANTUNG: Chefoo (*Fauvel* ex *Franchet*).

14. **Smilax ovalifolia,** *Roxb. Fl. Ind.* iii. p. 794; *Seem. Bot. Voy. 'Herald,'* p. 421; *Benth. Fl. Hongk.* p. 370.

KWANGTUNG (*Ford*, 369!); HONGKONG (*Hance* ex *Seemann*). Herb. Kew.

India, Ceylon.

15. **Smilax pekingensis,** *A. DC. Monogr. Phan.* i. p. 108.

CHILI: Peking (*Wawra*, 1059, ex *A. DC.*).

16. **Smilax perfoliata,** *Lour. Fl. Cochinch.* p. 622; *Hance, in Journ. Bot.* xvii. (1879) p. 15; *A. DC. Monogr. Phan.* i. p. 211.

HAINAN (*Swinhoe* ex *Hance*).

17. **Smilax riparia,** *A. DC. Monogr. Phan.* i. p. 55.

KWANGTUNG: Canton (*Sampson* ex *Hance*).

18. **Smilax scobinicaulis,** *C. H. Wright, in Kew Bulletin* (1895), p. 117.

HUPEH (*Henry*, 6554!). Herb. Kew.

Easily distinguished from the other Chinese species by the numerous black fragile prickles which clothe the stem, as in some forms of *Smilax californica*, A. Gray (Wats. Bot. Calif. ii. p. 186).

19. **Smilax Sieboldi,** *Miq. in Versl. en Med. K. Akad. Wetensch.* ser. 2, ii. (1868) p. 87; *Miq. in Ann. Mus. Bot. Lugd.-Bat.* iii. p. 150; *Maxim. in Bull. Acad. St. Pétersb.* xvii. (1872) p. 169; *Mél. Biol.* viii. p. 406; *Franch. et Savat. Enum. Pl. Jap.* ii. p. 49; *A. DC. Monogr. Phan.* i. p. 48.

SHANTUNG: Chefoo (*Wawra* ex *A. DC.*); COREA (*Carles*, 172!). Herb. Kew.

Japan.

20. **Smilax stans,** *Maxim. in Bull. Acad. St. Pétersb.* xvii. (1872) p. 170; *Mél. Biol.* viii. p. 407; *A. DC. Monogr. Phan.* i. p. 49.

HUPEH: South Patung (*Henry*, 5436 partly!), Chienshih (*Henry*, 5941!), Changlo (*Henry*, 6276, 6334!); SZECHUEN: Wushan (*Henry*, 7906!). Mus. Brit.; Herb. Kew.

Japan.

21. **Smilax stenopetala,** *A. Gray, in Mem. Amer. Acad.* n. s. vi. (1859) p. 412; *Maxim. in Bull. Acad. St. Pétersb.* xvii. (1872) p. 169; *Mél. Biol.* viii. p. 405; *A. DC. Monogr. Phan.* i. p. 189.

FORMOSA (*Maries*! *Playfair*, 89!); LUCHU ARCHIPELAGO (*Wright*, 312!). Herb. Kew.

Japan.

22. **Smilax vaginata,** *Decne. in Jacquem. Voy.* iv. *Bot.* p. 169, t. 169; *Hook. f. Fl. Brit. Ind.* vi. p. 305.

HUPEH: South Patung (*Henry*, 5436 partly!). Herb. Kew.

North India.

In addition to the specimens of this genus enumerated above, there are many others, both at the British Museum and Kew, which are not referable to any of the above mentioned species, but are too imperfect for description.

1. **Asparagus brachyphyllus,** *Turcz. in Bull. Soc. Nat. Mosc.* (1840) p. 78; *Baker, in Journ. Linn. Soc., Bot.* xiv. (1875) p. 602; *Bretschn. Hist. Europ. Bot. Disc.* p. 352.

Asparagus maritimus, *Pall. Reise*, ii. p. 329, *non Mill.*; *Bunge, Enum. Pl. Chin. Bor.* p. 65, no. 368; *Franch. Pl. David.* i. p. 301.

Asparagus trichophyllus, *var.* trachyphyllus, *Kunth, Enum. Pl.* v. p. 63.

CHIHLI: Jehol (*David*, 1800! 1639, ex *Franchet*), Nankau (*Williams*, hb. *Hance*, 14887!). Mus. Brit.; Herb. Kew.

Songaria.

2. **Asparagus davuricus,** *Fisch. ex Link, Enum. Hort. Berol.* i. p. 340; *Kunth, Enum. Pl.* v. p. 64; *Baker, in Journ. Linn. Soc., Bot.* xiv. (1875) p. 599, et xvii. (1879) p. 387; *Franch. Pl. David.* i. p. 301; *Bretschn. Hist. Europ. Bot. Disc.* p. 181.

CHIHLI: Jehol (*David*, 1800bis, ex *Franchet*), Peking (*Bushell*!), Tsien Mountains (*Faber*, 1536 !); SHINGKING: Sarhoo (*Ross*, 341 !), Hingjing (*Ross*, 263 !); SHANTUNG: Chefoo (*Faber*, 76 ! *Forbes* !); COREA (*Perry*, 44 ! *Carles*, 41 !). Herb. Kew.

Dahuria and Mongolia.

3. **Asparagus filicinus**, *Ham. in D. Don, Prodr. Fl. Nepal.* p. 49; *Kunth, Enum. Pl.* v. p. 73; *Baker, in Journ. Linn. Soc., Bot.* xiv. (1875) p. 605; *Hook. f. Fl. Brit. Ind.* vi. p. 314; *Baroni, in Bull. Soc. Bot. Ital.* (1898) p. 185.

HUPEH: South Patung (*Henry*, 5712 B !); SZECHUEN: South Wushan (*Henry*, 5712 !); SHENSI: Mount Tuikiotsau (*Giraldi* !). Mus. Brit.; Herb. Kew.

Northern India.

4. **Asparagus gibbus**, *Bunge, Enum. Pl. Chin. Bor.* p. 65; *Baker, in Journ. Linn. Soc., Bot.* xiv. (1875) p. 600, et xvii. (1879) p. 387; *Maxim. Ind. Fl. Pek. in Prim. Fl. Amur.* p. 478; *Franch. in Mém. Soc. Sc. Nat. Cherbourg*, xxiv. (1882) p. 257.

Asparagus Sieboldi, *Debeaux, Fl. Tchef.* p. 134, *non Maxim.*

CHIHLI: Peking (*Williams*, 12635 in herb. *Hance* !); SHINGKING: Foolong (*Ross*, 330 !), Jaoling (*Ross*, 385 !), Liaoyang (*Ross*, 9 !); SHANTUNG: Chefoo (*Perry* ! *Fauvel* ex *Franchet*). Herb. Kew.

5. **Asparagus longiflorus**, *Franch. Pl. David.* i. p. 300.

CHIHLI: Jehol (*David*, 1766, ex *Franchet*).

6. **Asparagus lucidus**, *Lindl. in Bot. Reg.* 1844, *Misc.* p. 29, no. 36; *Benth. Fl. Hongk.* p. 371; *Miq. in Ann. Mus. Bot. Lugd.-Bat.* iii. p. 151; *Kunth, Enum. Pl.* v. p. 72; *Baker, in Journ. Linn. Soc., Bot.* xiv. (1875) p. 605; *Debeaux, Fl. Shangh.* p. 63; *Franch. et Savat. Enum. Pl. Jap.* ii. p. 58.

Asparagus falcatus, *Benth. in Hook. Lond. Journ. Bot.* i. (1842) p. 493; *Seem. Bot. Voy. 'Herald,'* p. 421, *non Linn.*

Asparagus insularis, *Hance, in Ann. Sc. Nat.* 5^{me} sér. v. (1866) p. 245.

Melanthium cochinchinense, *Lour. Fl. Cochinch.* p. 216 ?

KIANGSU: Shanghai (ex *Debeaux*); FOKIEN: Amoy (*Swinhoe* !); FORMOSA: Tamsui (*Oldham*, 567, 568, 569 !); HUPEH: Ichang (*Henry*, 192, 1009, 1124 !), Nanto (*Henry*, 2093 !); SZECHUEN: Mount Omei (*Faber*, 36 !); KWANGTUNG: Macao (*Staunton* ! *Nelson* !); HONGKONG (*Hinds* ! *Wright*, 538 ! *Hance*, 274 !), Mount Victoria (*Lamont*, 796!); HAINAN (*Henry*, 8163*); COREA: Port Hamilton (*Wilford*, 696! 1005!), West Corea (*Perry*, 46!). Mus. Brit.; Herb. Kew.

Japan.

7. **Asparagus officinalis,** *Linn. Sp. Pl.* ed. 1, p. 313; *Baker, in Journ. Linn. Soc., Bot.* xiv. (1875) p. 598; *Baker & S. Moore, in Journ. Linn. Soc., Bot.* xvii. (1879) p. 387.

SHINGKING: Fungwangshan (*Ross*, 196!), Jaoling (*Ross*, 375!), between Moukden and Tungcheshien (*James*!). Herb. Kew.

Europe, Caucasus, North Persia, and Siberia.

8. **Asparagus schoberioides,** *Kunth, Enum. Pl.* v. p. 70; *Miq. in Ann. Mus. Bot. Lugd.-Bat.* iii. p. 151; *Baker, in Journ. Linn. Soc., Bot.* xiv. (1875) p. 604; *Baker & S. Moore, in Journ. Linn. Soc., Bot.* xvii. (1879) p. 387; *Franch. et Savat. Enum. Pl. Jap.* ii. p. 58.

Asparagus Wrightii, *A. Gr. in Mem. Amer. Acad.* vi. (1858–59) p. 413.

Asparagus micranthus, *Sieb. et Zucc. ex Miq. in Ann. Mus. Bot. Lugd.-Bat.*! iii. p. 151.

Asparagus Sieboldi, *Maxim. Prim. Fl. Amur.* p. 287.

Asparagus parviflorus, *Turcz. Fl. Baic.-Dahur.* ii. pt. i. p. 226.

SHINGKING: Sarhoo (*Ross*, 342!), Chienshan (*Ross*, 449), Changpeishan (*James*!), between Moukden and Tungcheshien (*James*!), Jaoling (*Webster*, 21!); SHANTUNG: Chefoo (*Faber*, 76 bis!); COREA (*Carles*, 79!). Herb. Kew.

Japan and Northern Asia.

Var. **subsetaceus,** *Franch. Pl. David.* i. p. 302.

CHIHLI: Jehol (*David*, 1779, ex *Franchet*).

9. **Asparagus sinicus,** *C. H. Wright.*

Asparagopsis sinica, *Miq. in Journ. Bot. Néerl.* i. (1861) p. 90.

HONGKONG (*Krone* ex *Miquel*).

10. **Asparagus trichophyllus,** *Bunge, Enum. Pl. Chin. Bor.* p. 65, no. 369; *Maxim. Ind. Fl. Pek. in Prim. Fl. Amur.* p. 478; *Baker, in Journ. Linn. Soc., Bot.* xiv. (1875) p. 600; *Franch. in Mém. Soc. Sc. Nat. Cherbourg*, xxiv. (1882) p. 257, *et Bull. Soc. Bot. France*, xxix. (1882) p. 12; *Pl. David*, i. p. 301.

CHIHLI: Jehol (*David* ex *Franchet*), Peking (*Incarville* ex *Franchet*); SHANTUNG: Chefoo (*Fauvel* ex *Franchet*).

Central Siberia.

1. **Polygonatum agglutinatum,** *Hua, in Journ. de Bot.* vi. (1892) p. 448.

YUNNAN: Lo-Kochan (*Delavay*, 1935, ex *Hua*), Santchaho (*Delavay*, 2880 p. p., ex *Hua*), Che-Tong (*Delavay*, 2550, ex *Hua*).

Delavay's no. 4332, collected at Kimise, is said by Hua to be a form of this with a stipitate perianth, the inner lobes of which have their margins densely ciliate.

2. **Polygonatum anomalum,** *Hua, in Journ. de Bot.* vi. (1892) p. 420.

SZECHUEN (*Pratt*, 41!). Herb. Kew.

This species bears the aspect of *P. officinale*, var. *humile*, Baker, but can be distinguished by its smaller solitary flowers, borne on slender erect pedicels, more than half an inch long. The lower leaves are opposite, the upper alternate, and every one bears a flower in its axil.

3. **Polygonatum cirrhifolium,** *Royle, Ill. Him. Bot.* i. p. 380; *Kunth, Enum. Pl.* v. p. 145; *Maxim. in Bull. Acad. St. Pétersb.* xxix. (1884) p. 212; *Mél. Biol.* xi. p. 854; *Hook. f. in Fl. Brit. Ind.* vi. p. 322; *Hua, in Journ. de Bot.* vi. (1892) p. 428.

Convallaria cirrhifolia, *Wall. in Asiat. Research.* xiii. (1820) p. 382, cum tab.

Polygonatum chinense, *Kunth, Enum. Pl.* v. p. 146.

Polygonatum sibericum, *Baker, in Journ. Linn. Soc., Bot.* xiv. (1875) p. 561 p. p.

SHINGKING: Moukden (*Webster*!); HUPEH: South Patung (*Henry*, 5501 A); KANSU (fide *Hua*); SZECHUEN: Tatsienlou (*Bonvalot* ex *Hua*).

Tibet and Temperate Himalayas.

4. **Polygonatum curvistylum,** *Hua, in Journ. de Bot.* vi. (1892) p. 424.

YUNNAN: Yentzehay (*Delavay* ex *Hua*).

5. **Polygonatum cyrtonema,** *Hua, in Journ. de Bot.* vi. (1892) p. 393.

SZECHUEN (*Farges* ex *Hua*).

6. **Polygonatum Delavayi,** *Hua, in Journ. de Bot.* vi. (1892) p. 422.

YUNNAN: Piiouse (*Delavay*, 3024, ex *Hua*).

7. **Polygonatum erythrocarpum**, *Hua, in Journ. de Bot.* vi. (1892) p. 424.

SZECHUEN (*Farges* ex *Hua*).

8. **Polygonatum Fargesi**, *Hua, in Journ. de Bot.* vi. (1892) p. 446.

SZECHUEN (*Farges*, 538, ex *Hua*).

Sikkim.

The native name is "Lao-fou-Kiang." It is doubtful whether this is specifically distinct from *P. sibiricum*, Red.

9. **Polygonatum Franchetii**, *Hua, in Journ. de Bot.* vi. (1892) p. 392.

SZECHUEN (*Farges*, 395, 529, 671, ex *Hua*).

10. **Polygonatum fuscum**, *Hua, in Journ. de Bot.* vi. (1892) p. 444.

SZECHUEN: Fangyangtchong (*Delavay*, 3037, ex *Hua*).

11. **Polygonatum Hookeri**, *Baker, in Journ. Linn. Soc., Bot.* xiv. (1875) p. 558; *Hook. Ic. Pl.* t. 2218; *Hook. f. Fl. Brit. Ind.* vi. p. 320.

SZECHUEN: Tachienlu (*Pratt*, 867! *Bonvalot* ex *Hua*). Mus. Brit.; Herb. Kew.

Sikkim.

12. **Polygonatum kansuense**, *Maxim. in Act. Hort. Petrop.* xi. (1891) p. 493; *Hua, in Journ. de Bot.* vi. (1892) p. 426.

Polygonatum roseum, *Maxim. in Bull. Acad. St. Pétersb.* xxix. (1884) p. 211; *Mél. Biol.* xi. p. 853, non *Kunth*; *Hua, in Journ. de Bot.* vi. (1892) p. 423 ex parte.

KANSUH: Tetung River (*Przewalski*!); Dshoni (*Potanin*!); Myndansha River (*Grum-Grshimailo* ex *Maximowicz*). Herb. Kew.

13. **Polygonatum Kingianum**, *Collett et Hemsl., in Journ. Linn. Soc., Bot.* xxviii. (1890) p. 138, t. 21; *Hua, in Journ. de Bot.* vi. (1892) p. 449.

YUNNAN: Tapintze (*Delavay*, 2044, ex *Hua*), Talongtan (*Delavay*, 3048, ex *Hua*), Mengtze (*Tanant* ex *Hua*).

Burmah, Tonquin.

14. **Polygonatum latifolium** var. **commutatum**, *Baker, in Journ. Linn. Soc., Bot.* xiv. (1875) p. 555.

Convallaria commutata, *Schult. f. Syst.* vii. p. 1671.

Polygonatum giganteum, *Dietr. in Otto, Gartenz.* 1835, p. 222; *Kunth, Enum. Pl.* v. p. 136; var. falcatum, *Maxim. in Bull. Acad. St. Pétersb.* xxix. (1884) p. 210; *Mél. Biol.* xi. p. 851.

Polygonatum commutatum, *Dietr. in Otto, Gartenz.* 1835, p. 223; *Kunth, Enum. Pl.* v. p. 135.

Polygonatum Thunbergii, *Morren et Decne. in Ann. Sc. Nat.* 2^{me} sér. ii. (1834) p. 312; *Kunth, Enum. Pl.* v. p. 133.

Polygonatum canaliculatum, *Miq. in Ann. Mus. Bot. Lugd.-Bat.* iii. p. 148, non *Pursh.*

COREAN ARCHIPELAGO (*Oldham*, 879!), Tsusima (*Wilford*!). Herb. Kew.

South and Central Europe, North America, and Japan.

15. **Polygonatum macropodum**, *Turcz. in Bull. Soc. Nat. Mosc.* 1832, pt. ii. p. 205; *l. c.* 1837, fasc. vii. p. 158; *l. c.* 1879, p. 61; *Kunth, Enum. Pl.* v. p. 140; *Maxim. in Bull. Acad. St. Pétersb.* xxix. (1884) p. 208; *Mél. Biol.* xi. p. 848; *Baker, in Journ. Linn. Soc., Bot.* xiv. (1875) p. 557; *Franch. Pl. David.* p. 302; *Hua, in Journ. de Bot.* vi. (1892) p. 420.

Polygonatum umbellatum, *Baker, in Journ. Linn. Soc., Bot.* xiv. (1875) p. 553.

Convallaria umbellata, *Bunge, ex Baker, in Journ. Linn. Soc., Bot.* xiv. (1875) p. 553.

CHIHLI: Peking (*Bullock*, 230!, *Skatschkow*!, *Bretschneider*, 737!), Jehol (*David*, 1842!), Kalgan (*Kirilow* ex *Turczaninow*); SHANTUNG: Chefoo (*Hancock* ex *Maximowicz*, *Fauvel* ex *Franchet*). Herb. Kew.

16. **Polygonatum multiflorum**, *Allioni, Fl. Ped.* i. p. 131; *Kunth, Enum. Pl.* v. p. 138; *Baker, in Journ. Linn. Soc., Bot.* xiv. (1875) p. 555; *Franch. et Savat. Enum. Pl. Jap.* ii. p. 55.

Convallaria multiflora, *Linn. Sp. Pl.* ed. 1, p. 315.

Convallaria govaniana, *Wall. Cat.* n. 5137.

Polygonatum govanianum, *Royle, Ill. Him. Bot.* p. 380.

HUPEH: Ichang (*Henry*, 2020, 2682, 3849, 4087, 5460 B!); KWANGTUNG (*Ford*, 365!). Mus. Brit.; Herb. Kew.

Europe, Temperate Asia, Japan.

This is a very variable species, between which and *P. latifolium* many intermediate forms occur. The extreme states of these two species can be distinguished thus:—

P. multiflorum.—Leaves sessile, sheathing, acute, margins more or less undulate, nerves prominent beneath. Perianth greenish; tube constricted above the ovary, pilose inside; segments spreading.

P. latifolium.—Leaves broader, shortly petiolate, acuminate. Perianth yellowish; tube not constricted above the ovary, glabrous inside; segments more or less incurved.

The differences in the length of the peduncle, number of flowers and number of seeds appear to be of little diagnostic value.

17. **Polygonatum nodosum,** *Hua, in Journ. de Bot.* vi. (1892) p. 394.

SZECHUEN (*Farges* ex *Hua*).

18. **Polygonatum officinale,** *Allioni, Fl. Ped.* i. p. 131 (1785); *Baker, in Journ. Linn. Soc., Bot.* xiv. (1875) p. 554; *Hance, in Journ. Bot.* xiii. (1875) p. 139, et xx. (1882) p. 39; *Maxim. in Bull. Acad. St. Pétersb.* xxix. (1884) p. 206; *Mél. Biol.* xi. p. 846; *Debeaux, Fl. Tchef.* p. 134; *Hua, in Journ. de Bot.* vi. (1892) p. 395.

Polygonatum vulgare, *Desf. in Ann. Mus. Par.* ix. (1807) p. 49; *Red. Lil.* t. 258; *Kunth, Enum. Pl.* v. p. 132; *Baker & S. Moore, in Journ. Linn. Soc., Bot.* xvii. (1879) p. 387; *Franch. et Savat. Enum. Pl. Jap.* ii. p. 54.

Convallaria Polygonatum, *Linn. Sp. Pl.* ed. 1, p. 315; *Bunge, Enum. Pl. Chin. Bor.* p. 65.

CHIHLI: Peking (*Bullock*, 231! *Möllendorff* ex *Maximowicz*), Pohuashan (*Bretschneider* ex *Hance*); SHINGKING: Moukden (*James*! *Webster*, 116!); Kwandien Mountains (*Ross*, 78!), Hingjing (*Ross*, 249, 296!); SHANTUNG: Chefoo (*Fauvel* ex *Franchet*); SHANSI (*Potanin*!); KIANGSU: Chinkiang (*Bullock*!); KANSUH: Tangut (*Przewalski*!); SZECHUEN: South Wushan (*Henry*, 556!); COREA: Chemulpo (*Carles*, 59!). Mus. Brit.; Herb. Kew.

Europe, Siberia, and Dahuria.

Var. **japonicum,** *Maxim. in Bull. Acad. St. Pétersb.* xxix. (1884) p. 207; *Mél. Biol.* xi. p. 847.

Polygonatum japonicum, *Morren et Decne. in Ann. Sc. Nat.* 2^me^ sér. ii. (1834) p. 311; *Kunth, Enum. Pl.* v. p. 133; *Baker, in Journ. Linn. Soc., Bot.* xiv. (1875) p. 554.

Polygonatum vulgare, var. japonicum, *Franch. et Savat. Enum. Pl. Jap.* ii. p. 54.

CHIHLI: Peking (*Bullock*, 232!); SHANTUNG: Chefoo (*Hancock*, 28!); COREA (*Carles*!). Herb. Kew.

Japan.

Var. **macranthum**, *Hua, in Journ. de Bot.* vi. (1892) p. 395.

Polygonatum vulgare, var. macranthum, *Hook. f. in Bot. Mag.* t. 6133.

SZECHUEN: Tchenkeoutin (*Farges*, 513, 586, ex *Hua*).

Japan.

Var. **Maximowiczii**, *Maxim. in Bull. Acad. St. Pétersb.* xxix. (1884) p. 207; *Mél. Biol.* xi. p. 847.

Polygonatum Maximowiczii, *Fr. Schmidt, Reisen in Amur-Lande*, p. 185.

Polygonatum sp., *Maxim. Prim. Fl. Amur.* p. 275.

NORTH CHINA (*Kirilow* ex *Maximowicz*); CHIHLI: Peking (*Tatarinow* ex *Maximowicz*).

Var. **papillosum**, *Franch. Pl. David.* i. p. 302.

CHIHLI: Jehol (*David*, 1767, ex *Franchet*).

19. **Polygonatum platyphyllum**, *Franch. in Journ. de Bot.* iv. (1890) p. 318.

CHIHLI: Peking, Pekeou, St. Michel (*Bodinier* ex *Franchet*).

20. **Polygonatum Prattii**, *Baker, in Hook. Ic. Pl.* t. 2217; *Hua, in Journ. de Bot.* vi. (1892) p. 420.

SZECHUEN: Tatsienlou (*Pratt*, 28*!). Herb. Kew.

21. **Polygonatum pumilum**, *Hua, in Journ. de Bot.* vi. (1892) p. 423.

SZECHUEN (*Farges*, 797, ex *Hua*).

22. **Polygonatum roseum**, *Kunth, Enum. Pl.* v. p. 144, *non Maxim.*; *Hook. in Bot. Mag.* t. 5049; *Baker, in Journ. Linn. Soc., Bot.* xiv. (1875) p. 560.

Convallaria rosea, *Ledeb. Ic.* t. 1.

HUPEH: Fang (*A. Henry*, 6497 B!). Mus. Brit.; Herb. Kew.

Southern Siberia.

Great confusion prevails as to this species. In the 'Flora of British India,' vi. p. 321, it is doubtfully united with *P. verticillatum*, All.

23. **Polygonatum sibiricum,** *Red. Lil.* t. 315; *Kunth, Enum. Pl.* v. p. 145; *Baker, in Journ. Linn. Soc., Bot.* xiv. (1875) p. 561, pro parte; *Maxim. in Bull. Acad. St. Pétersb.* xxix. (1884) p. 212; *Mél. Biol.* xi. p. 854; *Hua, in Journ. de Bot.* vi. (1892) p. 447; *Franch. Pl. David.* i. p. 302; *Mém. Soc. Sci. Nat. Cherbourg,* xxiv. (1882) p. 257.

Polygonatum chinense, *Kunth, Enum. Pl.* v. p. 146.

CHIHLI: Jehol (*David,* 1784!); Pohuashan (*Bretschneider*!), Peking (*Bretschneider,* hb. *Hance,* 17036!); SHANTUNG: Chefoo (*Fauvel* ex *Franchet*); HUPEH: Nanto (*A. Henry,* 1984!). Mus. Brit.; Herb. Kew.

Siberia.

This species is very closely allied to *P. cirrhifolium,* from which it differs in having the filaments papillose and the style twice as long as the ovary.

24. **Polygonatum Souliei,** *Hua, in Journ. de Bot.* vi. (1892) p. 427.

SZECHUEN: Tachienlu (*Soulié,* 306, ex *Hua*).

25. **Polygonatum trinerve,** *Hua, in Journ. de Bot.* vi. (1892) p. 445.

YUNNAN: Santchaho (*Delavay,* 2879, ex *Hua*).

26. **Polygonatum verticillatum,** *Allioni, Fl. Pedem.* i. p. 131; *Kunth, Enum. Pl.* v. p. 142; *Red. Lil.* t. 244; *Baker, in Journ. Linn. Soc., Bot.* xiv. (1875) p. 560, and xvii. (1879) p. 387; *Maxim. in Bull. Acad. St. Pétersb.* xxix. (1884) p. 210; *Mél. Biol.* xi. p. 852; *Hook. f. Fl. Brit. Ind.* vi. p. 321, pro parte.

Convallaria verticillata, *Linn. Sp. Pl.* ed. 1, p. 315.

SHINGKING: Moukden (*James*! *Webster,* 4, 32, 323!), Sarhoo (*Ross,* 346!); SZECHUEN: Mount Omei (*Faber,* 969!). Herb. Kew.

Europe, Caucasus, Temperate Himalayas.

1. **Oligobotrya Henryi,** *Baker, in Hook. Ic. Pl.* t. 1537.

HUPEH: Patung (*A. Henry,* 914, 5583 B!), Hsingshan (*A. Henry,* 7535 A!); HUNAN: Shihmen (*A. Henry,* 7535!); SZECHUEN: South Wushan (*A. Henry,* 5583!), Mount Omei (*Faber,* 899, 964!), Tatsienlou (*Pratt,* 54, 826! *Soulié,* 181!). Herb. Kew.

1. **Disporopsis fusco-picta**, *Hance, in Journ. Bot.* xxi. (1883) p. 278; *Kew Bulletin* (1893), p. 344.

Auliscomena aspersa, *Hua, in Journ. de Bot.* vi. (1892) p. 471, pl. xiv. fig. 1.

HUPEH: Kuei (*A. Henry*, 6168!), Fang (*A. Henry*, 6705!); KWANGTUNG: Lofaushan at 3100 feet (*B. C. Henry* in hb. *Hance*, 22186!). Mus. Brit.; Herb. Kew.

1. **Streptopus amplexifolius**, *DC. Fl. Franç.* iii. p. 174; *Red. Lil.* t. 259; *Kunth, Enum. Pl.* iv. p. 205; *Maxim. in Bull. Acad. St. Pétersb.* xxix. (1884) p. 212; *Mél. Biol.* xi. p. 855; *Miq. in Ann. Mus. Bot. Lugd.-Bat.* iii. p. 146; *A. Gray, Bot. Jap. in Mem. Amer. Acad.* vi. (1859) p. 415; *Franch. et Savat. Enum. Pl. Jap.* ii. p. 51.

Streptopus amplexicaulis, *Poir. Encycl.* vii. p. 467; *Baker, in Journ. Linn. Soc., Bot.* xiv. (1875) p. 591.

Uvularia amplexifolia, *Linn. Sp. Pl.* ed. 1, p. 304.

KANSUH (*Przewalski*!); SZECHUEN: Tachienlu (*Pratt*, 52!). Mus. Brit.; Herb. Kew.

Central Europe, North Asia, North America.

2. **Streptopus paniculatus**, *Baker, in Hook. Ic. Pl.* t. 1932.

HUPEH: Chienshih (*A. Henry*, 5723 A and B!); SZECHUEN: South Wushan (*A. Henry*, 5723!). Mus. Brit.; Herb. Kew.

1. **Tovaria atropurpurea**, *Franch. in Bull. Soc. Bot. France*, xliii. (1896) p. 45.

YUNNAN: Mount Tsangchan (*Delavay*, 1824, ex *Franchet*).

2. **Tovaria Delavayi**, *Franch. in Bull. Soc. Bot. France*, xliii. (1896) p. 47.

YUNNAN: Longki (*Delavay* ex *Franchet*).

3. **Tovaria Fargesii**, *Franch. in Bull. Soc. Bot. France*, xliii. (1896) p. 45.

SZECHUEN: Tchenkeoutin (*Farges*, 422, ex *Franchet*).

4. **Tovaria japonica**, *Baker, in Journ. Linn. Soc., Bot.* xiv. (1875) p. 570, and xvii. (1879) p. 387; *Franch. in Bull. Soc. Bot. France*, xliii. (1896) p. 46.

Smilacina japonica, *A. Gray, in Rep. Perry's Exped.* p. 321; *Bot.*

Japan, in Mem. Amer. Acad. vi. (1859) p. 414; *Franch. et Savat. Enum. Pl. Jap.* ii. p. 53; *Maxim. in Bull. Acad. St. Pétersb.* xxix. (1884) p. 214; *Mél. Biol.* xi. p. 857.

Smilacina japonica, var. mandschurica, *Maxim. in Bull. Acad. St. Pétersb.* xxix. (1884) p. 214; *Mél. Biol.* xi. p. 857.

Smilacina hirta, *Maxim. Prim. Fl. Amur.* p. 276.

Smilacina Rossii, *Maxim. in Bull. Acad. St. Pétersb.* xxix. (1884) p. 214; *Mél. Biol.* xi. p. 857.

Tovaria Rossii, *Baker, in Journ. Linn. Soc., Bot.* xvii. (1879) p. 387.

CHIHLI: Peking (*Tatarinow* and *Bretschneider* ex *Maximowicz*), Jehol (*David*, 1769, ex *Franchet*), Tatchiaochen (*David*, 2224, ex *Franchet*); SHINGKING: Kwandien Mountains (*Ross*, 86!), Soonghwahien (*Ross*, 44!), Moukden (*Webster*, 42!); HUPEH: South Patung (*A. Henry*, 5366!); SZECHUEN: Tchenkeoutin (*Farges*, 777 bis, ex *Franchet*). Mus. Brit.; Herb. Kew.

Japan and E. Siberia.

5. **Tovaria Prattii**, *Franch. in Bull. Soc. Bot. France*, xliii. (1896) p. 46.

Var. **quadrifolia**, *Franch. l. c.*

SZECHUEN: Tachienlu (*Pratt*, 847!). Herb. Kew.

Var. **robusta**, *Franch. l. c.*

SZECHUEN: Tachienlu (*Pratt*, 106!). Herb. Kew.

6. **Tovaria Souliei**, *Franch. in Bull. Soc. Bot. France*, xliii. (1896) p. 45.

SZECHUEN: Tachienlu (*Soulié*, 806, ex *Franchet*).

7. **Tovaria stenoloba**, *Franch. in Bull. Soc. Bot. France*, xliii. (1896) p. 47.

SZECHUEN: Tchenkeoutin (*Farges*, 593 bis, ex *Franchet*).

8. **Tovaria tatsienensis**, *Franch. in Bull. Soc. Bot. France*, xliii. (1896) p. 47.

SZECHUEN: Tachienlu (*Pratt*, 34, ex *Franchet*).

9. **Tovaria tubifera**, *C. H. Wright.*

Smilacina tubifera, *Batalin, in Act. Hort. Petrop.* xiii. I. (1893) p. 104.

HUPEH: Fang (*A. Henry*, 6845, 6858!), Hsingshan (*A. Henry*, 6845 A!), Chienshih (*A. Henry*, 5791!); Changlo (*A. Henry*, 6252!); KANSUH: Dshoni, Mount Idshuschan

(*Potanin*!); Szechuen: South Wushan (*Henry*, 7527!), Mount Omei (*Faber*, 961!). Herb. Kew.

10. **Tovaria yunnanensis**, *Franch. in Bull. Soc. Bot. France*, xliii. (1896) p. 48.

Yunnan: Koutoui and Lyenyn (*Delavay*, 3556, 4160, ex *Franchet*).

1. **Maianthemum Convallaria**, *Wigg. Prim. Fl. Holsat.* p. 15.

Maianthemum bifolium, *DC. Fl. Franç.* iii. p. 177; *Desf. in Ann. Mus. Par.* ix. (1807) p. 54; *Red. Lil.* t. 216. fig. 2; *Kunth, Enum. Pl.* v. p. 147; *Baker, in Journ. Linn. Soc., Bot.* xiv. (1875) p. 563.

Smilacina bifolia, *Schult. f. Syst.* vii. p. 307; *Turcz. in Bull. Soc. Nat. Mosc.* (1837) fasc. vii. p. 158; *A. Gray, in Rep. Perry's Exped.* p. 321; *Maxim. Ind. Fl. Pek. in Prim. Fl. Amur.* p. 478; *Franch. et Savat. Enum. Pl. Jap.* ii. p. 53; *Franch. Pl. David.* i. p. 303.

N. China (*Kirilow* ex *Turczaninow*); Chihli: Jehol (*David*, 689! 1814, ex *Franchet*), Pohuashan (*David*, 2257!); Shingking: Changpeishan (*James*!); Corea (*Bushnell*!). Mus. Brit.; Herb. Kew.

Widely spread through the north temperate zone.

1. **Convallaria majalis**, *Linn. Sp. Pl.* ed. 1, p. 314; *Red. Lil.* t. 227; *Kunth, Enum. Pl.* v. p. 131; *A. Gray, in Rep. Perry's Exped.* p. 321; *Maxim. Fl. As. Or. Fragm.* p. 61; *Baker, in Journ. Linn. Soc., Bot.* xiv. (1875) p. 552; *Hance, in Journ. Bot.* xiii. (1875) p. 139; *Maxim. Ind. Fl. Pek. in Prim. Fl. Amur.* p. 478; *Maxim. in Bull. Soc. Nat. Mosc.* (1879) p. 61; *Franch. et Savat. Enum. Pl. Jap.* ii. p. 54; *Franch. Pl. David.* i. p. 303.

Polygonatum maiale, *Allioni, Fl. Pedem.* i. p. 130.

Chihli: Pohuashan (*David*, 1838! *Bretschneider*!), Peking (*David*, 1120!); Shingking: Ngaiyang (*Ross*, 245!) Hingjing (*Ross*, 295!), Toonghwahien (*Ross*, 4!), Moukden (*James*!), Tungling (*Webster*, 113, 124!); Shantung: Chefoo (*Hancock*, 6!). Mus. Brit.; Herb. Kew.

Europe, Northern Asia, Japan, Eastern United States.

1. **Speirantha convallarioides**, *Baker, in Journ. Linn. Soc., Bot.* xiv. (1875) p. 563, t. 17.

Albuca? Gardeni, *Hook. Bot. Mag.* t. 4842.

Kiangsu: Shanghai (*Baines*!). Mus. Brit.; Herb. Kew.

1. **Reineckia carnea,** *Kunth, in Abh. Akad. Wiss. Berl.* (1842) p. 29; *Kunth, Enum. Pl.* v. p. 22; *Franch. et Savat. Enum. Pl. Jap.* ii. p. 57; *Baker, in Journ. Linn. Soc., Bot.* xiv. (1875) p. 551.

Sanseviera carnea, *Andr. Bot. Rep.* t. 361; *Maxim. Ind. Fl. Pek. in Prim. Fl. Amur.* p. 478.

Sanseviera sessiliflora, *Ker-Gawl. in Bot. Mag.* t. 739.

HUPEH: Patung (*A. Henry*, 1000, 5933 A!), Chienshih (*A. Henry*, 5933!), Hsingshan (*A. Henry*, 6562!), Ichang (*A. Henry*, 3267, 4283!); SZECHUEN: Mount Omei (*Faber*, 889!), Tachienlu (*Pratt*, 163!); KWANGTUNG: Canton (hb. *Hance*, cult.!); HONGKONG (hb. *Hance*, cult.!). Mus. Brit.; Herb. Kew.

Japan.

1. **Aspidistra** * **elatior,** *Blume, in Hoev. et De Vriese, Tijdschrift voor Nat.* i. (1834) p. 76, tt. 4 & 3 *d*; *Useful Plants of Japan*, iii. p. 962.

Aspidistra punctata, *Carrière, in Rev. Hort.* (1875) pp. 36–37, figs. 4–8.

Aspidistra punctata, var. albo-maculata, *Hook. Bot. Mag.* t. 5386.

Aspidistra variegata, *Hort. Turic. ex Regel, in Flora*, xxxiii. (1850) p. 354.

Aspidistra sp., *Baill. Dict. Bot.* i. p. 294; *J. H. Wilson, in Gard. Chron.* ser. III. xxvi. (1899) p. 155.

Plectogyne variegata, *Link, in Otto et Dietr. Gartenz.* (1834) p. 265; *Kunth, Enum. Pl.* v. p. 313; *Franch. et Savat. Enum. Pl. Jap.* ii. p. 85; *Baker, in Journ. Linn. Soc., Bot.* xiv. (1875) p. 580, t. 18; *Yasuda, in Bot. Mag. Tokyo*, viii. (1894) p. 75.

HONGKONG: Mount Parker (*A. B. Westland*!). Herb. Kew.

Japan.

2. **Aspidistra lurida,** *Ker-Gawl. in Bot. Reg.* t. 628; *Bot. Mag.* t. 2499; *Morr. & Decne. in Ann. Sc. Nat.* 2^{me} sér. ii. (1834) p. 311; *Lodd. Bot. Cab.* t. 1468; *Kunth, Enum. Pl.* v. p. 311; *Baker, in Journ. Linn. Soc., Bot.* xiv. (1875) p. 579, ex parte; *Franch. et Savat. Enum. Pl. Jap.* ii. p. 85; *Baill. in Bull. Soc. Linn. Paris*, ii. p. 1129, non *Sieb.*

Macrogyne convallariæfolia, *Link et Otto, Ic. Select.* p. 69, t. 31.

CHINA (ex *Kunth*); HONGKONG: Wongneichung (*Ford* in hb. *Hance*, 18984!). Mus. Brit.

3. **Aspidistra minutiflora,** *Stapf*, sp. n.

Perigonium urceolatum, dentibus parvis triangularibus por-

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* By Dr. O. STAPF.

rectis, circiter 4 lin. longum. Stigma stylo paulo latius, haud pileiforme.

HONGKONG: Wongneichung, *Ford*, 626, 627. Mus. Brit.

4. **Aspidistra punctata**, *Lindl. in Bot. Reg.* t. 977, *et in Trans. Hort. Soc. Lond.* vii. (1826) p. 66; *Kunth, Enum. Pl.* v. p. 312; *Bretschn. Hist. Europ. Bot. Disc.* p. 273; non *Durand.*

CHINA (*Parks* ex *Lindley*); HONGKONG (*Lamont*!). Mus. Brit.

1. **Tupistra chinensis**, *Baker, in Hook. Ic. Pl.* t. 1867; *Franch. in Bull. Soc. Bot. France*, xliii. (1896) p. 40.

Tupistra Fargesii, *Baill. in Bull. Soc. Linn. Paris*, i. p. 1114.

HUPEH: Patung (*A. Henry*, 5023, 5023 A!), Changyang (*A. Henry*, 5231, 5692 C!), Chienshih (*A. Henry*, 5692 A!), Ichang (*A. Henry*, 2044!); SZECHUEN: South Wushan (*A. Henry*, 5692), Tchenkeoutin (*Farges*, 114, ex *Baillon*). Mus. Brit.; Herb. Kew.

2. **Tupistra chlorantha**, *Baill. in Bull. Soc. Linn. Par.* ii. (1893) p. 1115; *Franch. in Bull. Soc. Bot. France*, xliii. (1896) p. 42.

SZECHUEN (*Farges*, 923, ex *Franchet*).

3. **Tupistra Delavayi**, *Franch. in Bull. Soc. Bot. France*, xliii. (1896) p. 40.

HUPEH (*A. Henry*, 5231 A, ex *Franchet*); YUNNAN: Outchay (*Delavay* ex *Franchet*).

4. **Tupistra lorifolia**, *Franch. in Bull. Soc. Bot. France*, xliii. (1896) p. 41.

SZECHUEN: Tchenkeou (*Farges* ex *Franchet*).

5. **Tupistra viridiflora**, *Franch. in Bull. Soc. Bot. France*, xliii. (1896) p. 41.

SZECHUEN: Heoupin (*Farges*, 933, ex *Franchet*).

6. **Tupistra Wattii**, *Hook. f. Fl. Brit. Ind.* vi. p. 325; *Franch. in Bull. Soc. Bot. France*, xliii. (1896) p. 42.

Campylandra Wattii, *C. B. Clarke, in Journ. Linn. Soc., Bot.* xxv. (1889) p. 78, t. 32.

YUNNAN: Longki (*Delavay*, 5109, 5139, ex *Franchet*).

1. **Rohdea japonica**, *Roth, Nov. Pl. Sp.* p. 197; *Kunth, Enum. Pl.* v. p. 321; *Baker, in Journ. Linn. Soc., Bot.* xiv. (1875) p. 582; *Franch. et Savat. Enum. Pl. Jap.* ii. p. 86; *Franch. in Bull. Soc. Bot. France*, xliii. (1896) p. 40.

Orontium japonicum, *Thunb. Flor. Jap.* p. 144; *Bot. Mag.* t. 898.

KIANGSU: Shanghai (*Faber*, "wild?"); HUPEH: Nanto (*A. Henry*, 4601!), Patung (*A. Henry*, 5023 B!); SZECHUEN: Mount Omei (*Faber*, 34!), Tchenkeoutin (*Farges*, 424, ex *Franchet*); COREA: Tsusima (*Wilford*, 898!). Herb. Kew.

Japan.

"Named K'ai-K'ou Chien: root is used as drug in cases of sore mouth."—*Dr. A. Henry.*

1. **Hemerocallis citrina**, *Baroni, in Nuovo Giorn. Bot. Ital.* iv. (1897) p. 305, t. 9; *Bull. Soc. Tosc. Ort.* (1897) p. 160, cum ic. color.

SHENSI: Luntun (*Giraldi*, ex *Baroni*).

2. **Hemerocallis flava**, *Linn. Sp. Pl.* ed. 2, p. 462; *Jacq. Hort. Vind.* ii. t. 139; *Curt. Bot. Mag.* t. 19; *Red. Lil.* t. 15; *Kunth, Enum. Pl.* iv. p. 588; *Baker, in Journ. Linn. Soc., Bot.* xi. (1870) p. 358; *Franch. et Savat. Enum. Pl. Jap.* ii. p. 79.

Hemerocallis graminea, *Kew Bulletin*, 1889, p. 116, non *Andr.*

SHINGKING: Moukden (*James*!); KIANGSU: Chinkiang (*Carles*, 448, 449!); HUPEH: Ichang (*A. Henry*, 195!), Patung (*A. Henry*, 1851, 6063!); COREA: Soul (*Veitch*, 68 *a* pro parte!). Herb. Kew.

Southern Europe, Northern Asia, Japan.

Dr. A. Henry states that the flowers are eaten with meat.

3. **Hemerocallis fulva**, *Linn. Sp. Pl.* ed. 2, p. 462; *Bot. Mag.* t. 64; *Red. Lil.* t. 16; *Lour. Fl. Cochinch.* p. 205; *Maxim. Ind. Fl. Pek. in Prim. Fl. Amur.* p. 478; *Bull. Soc. Nat. Mosc.* (1879) p. 63; *Kunth, Enum. Pl.* iv. p. 588; *Franch. et Savat. Enum. Pl. Jap.* ii. p. 80; *Baker, in Journ. Linn. Soc., Bot.* xi. (1870) p. 359; *Hook. f. Fl. Brit. Ind.* vi. p. 326.

Hemerocallis disticha, *Donn, Hort. Cantab.* ed. 6, p. 93; *Ker-Gawl. in Bot. Mag.* sub t. 1433; *Sweet, Brit. Flow. Gard.* t. 28.

Hemerocallis fulva, var. Kwanso, *Regel, Gartenfl.* (1866) p. 66, t. 500.

CHIHLI: Peking (*Bretschneider*!); FOKIEN: Amoy (*Hance*, 1502!); HUPEH: South Patung (*Henry*, 6142!); KWANGTUNG:

Canton, Pakwan (*Sampson* in hb. *Hance*); COREA: Soul (*Veitch*, 68, 68 *a* pro parte !). Mus. Brit.; Herb. Kew.

South Europe and Japan to the Himalayas.

Var. **maculata**, *Baroni, in Nuovo Giorn. Bot. Ital.* iv. (1897) p. 306.

SHENSI (*Giraldi* ex *Baroni*).

4. **Hemerocallis Middendorfii**, *Trautv. et Meyer, in Middend. Reise*, i. pt. 2, *Fl. Ochot.* p. 94; *Maxim. Prim. Fl. Amur.* p. 285; *Baker, in Journ. Linn. Soc., Bot.* xi. (1870) p. 359; *Regel, Gartenfl.* t. 522.

SHINGKING: Laoyehling (*James* !), Changpeishan (*James* !). Herb. Kew.

Amur.

5. **Hemerocallis minor**, *Mill. Dict.* ed. 8, no. 2; *Baker, in Journ. Linn. Soc., Bot.* xi. (1870) p. 358; *Franch. et Savat. Enum. Pl. Jap.* ii. p. 79; *Franch. Pl. David.* i. p. 303.

Hemerocallis graminea, *Andr. Bot. Rep.* t. 244; *Kunth, Enum. Pl.* iv. p. 588; *Bot. Mag.* t. 873; *Maxim. Ind. Fl. Pek. in Prim. Fl. Amur.* p. 478; *Debeaux, Fl. Tchef.* p. 140.

CHIHLI: Peking (*Bretschneider*, 755 ! *David* in hb. *Hance*, 13430 !), Jehol (*David*, 1863 !), Pohuashan (*Möllendorff* !); CHEKIANG: Chusan (*Wilford* !); HUPEH: Ichang (*A. Henry*, 1618 !), Kuei (*A. Henry*, 6182 !); HUNAN (*Hancock*, 123 !); COREA (*Veitch*, 69, 70 ! *Wykeham Perry* !), Chemulpo (*Carles*, 170, 181, 182 !). Mus. Brit.; Herb. Kew.

Eastern Siberia and Japan.

1. **Funkia lancifolia**, *Spreng. Syst.* ii. p. 41; *Franch. et Savat. Enum. Pl. Jap.* ii. p. 83; *Baker, in Journ. Linn. Soc., Bot.* xi. (1870) p. 368.

Funkia ovata, var. *β*, *Kunth, Enum. Pl.* iv. p. 592.

Hemerocallis lancifolia, *Thunb. in Trans. Linn. Soc.* ii. (1797) p. 335.

KIANGSI: Kiukiang (*Shearer* !); COREA: Waisan (*Veitch*, 82 !). Herb. Kew.

Japan.

2. **Funkia ovata**, *Spreng. Syst.* ii. p. 40; *Franch. et Savat. Enum. Pl. Jap.* ii. p. 81; *Baker, in Journ. Linn. Soc., Bot.* xi. (1870) p. 367.

Funkia ovata, var. *a*, *Kunth, Enum. Pl.* iv. p. 592.

Hemerocallis cœrulea, *Andr. Bot. Rep.* t. 6; *Red. Lil.* t. 106; *Bot. Mag.* t. 894.

Hemerocallis japonica, *Thunb. Fl. Jap.* p. 142, non *Trans. Linn. Soc.* ii. (1787) p. 142; *Bot. Mag.* t. 1433.

HUPEH (*A. Henry*, 6209 A!), Ichang (*A. Henry*, 287!); SZECHUEN: Tatsienlou (*Pratt*, 407!), Mount Omei (*Faber*, 898!).

Var. **minor**, *Baker, in Journ. Linn. Soc., Bot.* xi. (1870) p. 368.

SHINGKING: Moukden (*James*!); SZECHUEN: Patung (*A. Henry*, 2577!); COREAN ARCHIPELAGO (*Oldham*, 865!). Mus. Brit.; Herb. Kew.

Japan and Eastern Siberia.

3. **Funkia Sieboldiana**, *Hook. in Bot. Mag.* t. 3663; *Miq. in Arch. Néerl.* iv. (1869) p. 226; *Kunth, Enum. Pl.* iv. p. 592; *Franch. et Savat. Enum. Pl. Jap.* ii. p. 81; *Baker, in Journ. Linn. Soc., Bot.* xi. (1870) p. 367.

Funkia Sieboldi, *Lindl. in Bot. Reg.* 1839, t. 50.

Hemerocallis Sieboldtiana, *Lodd. Bot. Cab.* t. 1869.

KIANGSI: Kiukiang (*Bullock*, 247!). Herb. Kew.

Japan.

4. **Funkia subcordata**, *Spreng. Syst.* ii. p. 41; *Kunth, Enum. Pl.* iv. p. 591; *Miq. in Arch. Néerl.* iv. (1869) p. 229; *Baker, in Journ. Linn. Soc., Bot.* xi. (1870) p. 367; *Franch. in Bull. Soc. Bot. France*, xxix. (1882) p. 12.

Hosta japonica, *Tratt. Thes.* p. 10, t. 52.

Hemerocallis japonica, *Red. Lil.* t. 3; *Bot. Mag.* t. 1433.

Hemerocallis alba, *Andr. Bot. Rep.* t. 194.

NORTH CHINA (*Staunton* ex *Baker*); CHIHLI: Peking (*Incarville* ex *Franchet*); HUPEH: Ichang (*A. Henry*, 526, 2356!), Nanto (*A. Henry*, 2480 A!); SZECHUEN (*A. Henry*, 8892!), Tatsienlou (*Pratt*, 414!); KWANGTUNG: Canton, Fukwing (*Krone* in hb. *Hance*, 1506!). Mus. Brit.; Herb. Kew.

Japan.

[1. **Aloe chinensis**, *Baker, in Bot. Mag.* t. 6301. Aloë barbadensis, var. chinensis, *Haw. Suppl.* p. 45. Originally recorded from China, where, however, it is most unlikely to be indigenous.]

1. **Cordyline terminalis**, *Kunth, in Abh. Akad. Berl.* (1820) p. 30, *et Enum. Pl.* v. p. 25; *Baker, in Journ. Bot.* xi. (1873) p. 265, *et in Journ. Linn. Soc., Bot.* xiv. (1875) p. 539; *Hook. f. Fl. Brit. Ind.* vi. p. 331.

Dracæna terminalis, *Linn. Syst.* ed. 12, p. 246; *Hook. et Arn. Bot. Beech. Voy.* p. 97.

Aletris chinensis, *Lam. Encycl.* i. p. 79.

CHINA (ex *Kunth*); FORMOSA: Bankinsing (*A. Henry*, 813!). Herb. Kew.

India, Malaya, and Pacific Islands.

Var. **ferrea**, *Baker, in Journ. Bot.* xi. (1873) p. 265, *et Journ. Linn. Soc., Bot.* xiv. (1875) p. 540; *Hook. f. Fl. Brit. Ind.* vi. p. 331.

Cordyline Jacquini, *Kunth, in Abh. Akad. Berl.* (1842) p. 30, *et Enum. Pl.* v. p. 23.

Dracæna ferrea, *Linn. Syst.* ed. 12, p. 246; *Bot. Mag.* t. 2053; *Lour. Fl. Cochinch.* p. 196.

Dracæna terminalis, *Jacq. Ic.* t. 448; *Red. Lil.* t. 91; *Lodd. Bot. Cab.* t. 1224.

CHINA (ex *Kunth*); KWANGTUNG: Saikeung (*Krone* in hb. *Hance*, 412!). Mus. Brit.

India, Malaya.

1. **Anemarrhena asphodeloides**, *Bunge, Enum. Pl. Chin. Bor.* no. 373; *Maxim. Ind. Fl. Pekin. in Prim. Fl. Amur.* p. 478; *Franch. et Savat. Enum. Pl. Jap.* ii. p. 83; *Franch. Pl. David.* i. p. 303; *Baker, in Journ. Linn. Soc., Bot.* xv. (1876) p. 268; *Kunth, Enum. Pl.* iv. p. 600.

CHIHLI: Peking (*Williams* in hb. *Hance*, 13471! *Bretschneider*, 759!). Mus. Brit.; Herb. Kew.

1. **Diuranthera major**, *Hemsl. in Hook. Ic. Pl.* t. 2734.

WESTERN CHINA (*Wilson*!). Herb. Kew.

2. **Diuranthera minor**, *C. H. Wright*, ex *Hemsl. l. c.*

Paradisea minor, *C. H. Wright, in Kew Bulletin* (1895), p. 118.

YUNNAN: Mengtze, 6000 ft. (*Hancock*, 94!). Herb. Kew.

1. **Chlorophytum chinense**, *Franch. in Journ. de Bot.* (1891) v. p. 154.

SZECHUEN: Tachienlu (*Bonvalot* ex *Franchet*).

2. **Chlorophytum laxum**, *R. Br. Prodr.* p. 277; *Kunth, Enum. Pl.* iv. p. 603; *Hook. f. Fl. Brit. Ind.* vi. p. 336.

Chlorophytum laxiflorum, *Baker, in Journ. Linn. Soc., Bot.* xv. (1876) p. 328.

Chlorophytum falcatum, *Baker, in Ref. Bot.* t. 333.

Phalangium parviflorum, *Wight, Ic. Pl. Ind. Or.* t. 2039.

Anthericum parviflorum, *Benth. Fl. Hongk.* p. 373.

KWANGTUNG: Pakhoi (*Playfair*, 66!); HONGKONG (*Wright*, 536! *Hance*, 1264! *Lamont*, 800!); HAINAN (*A. Henry*, 8364!). Mus. Brit.; Herb. Kew.

Southern India, Ceylon, Borneo, Tropical Africa, and Australia.

1. **Thysanotus chinensis**, *Benth. Fl. Hongk.* p. 372; *Hance, in Ann. Sc. Nat.* 5me sér. v. (1866) p. 245; *Journ. Bot.* ix. (1871) p. 202; *Baker, in Journ. Linn. Soc., Bot.* xv. (1876) p. 337.

Thysanotus chrysanthereus, *F. Muell. Fragm.* v. p. 202.

Thysanotus chrysantherus, *Benth. Fl. Austral.* vii. p. 40.

KWANGTUNG: Canton (*Sampson*, 535! *Hance*, 3882!); HONGKONG (*Hance*); SOUTH CHINA (*Krone*!). Mus. Brit.; Herb. Kew.

Philippine Islands, Tonkin, Northern Australia.

1. **Dianella nemorosa**, *Lam. Encycl.* ii. p. 276 (1786); *Jacq. Hort. Schœnb.* i. t. 94.

Dianella ensifolia, *Red. Lil.* t. 1 (1802); *Bot. Mag.* t. 1404; *Hook. f. Fl. Brit. Ind.* vi. p. 337; *Baker, in Journ. Linn. Soc., Bot.* xiv. (1875) p. 576.

Dianella odorata, *Blume, Enum. Pl. Jav.* i. p. 13; *Franch. et Savat. Enum. Pl. Jap.* ii. p. 58; *Engl. Bot. Jahrb.* vi. (1885) p. 53.

Dianella javanica, *Kunth, Enum. Pl.* v. p. 52.

Dracæna ensifolia, *Linn. Mant.* p. 63; *Ait. Hort. Kew.* i. p. 454.

Dracæna ensata, *Thunb. et Dallm. Diss.* p. 3.

FORMOSA: Tamsui (*Oldham*, 566!), Bankingsing (*A. Henry*, 66!), Apes Hill (*A. Henry*, 792! *Swinhoe*!); SZECHUEN: Chungching (*Faber*, 963!): KWANGTUNG: Pakoi (*Playfair*, 240!), Macao (*Vachell*!); HONGKONG (*Wilford*, 87, 287! *Wright*, 537! *Hinds*! *Hance*, 450! *Lamont*, 798!); HAINAN (*A. Henry*, 8663!); LUCHU ARCHIPELAGO (*Wright*, 332!). Mus. Brit.; Herb. Kew.

Tropical Asia to Tropical Australia, Mascarene Islands.

1. **Nothoscordum nerinifolium**, *Benth. et Hook. f. Gen. Pl.* iii. p. 802.

Caloscordum nerinifolium, *Herb. in Bot. Reg.* (1844), *Misc.* p. 66; *Walp. Ann.* i. p. 859; *Lindl. in Bot. Reg.* (1847) t. 5.

Allium nerinifolium, *Baker, in Journ. Bot.* xii. (1874) p. 290.

Allium Thunbergii, *Franch. Pl. David.* i. p. 306 ex parte, non *G. Don.*

Allium Thunbergii, var. Davidii, *Franch. in David, Exs.* n. 2124.

CHIHLI: Peking (*Bretschneider*, 157! *Cantor*!), Jehol (*David*, 2124!); SHANSI (*Pierson*!). Herb. Kew.

1. **Allium Bakeri**, *Regel, Alliorum Monogr.* p. 141.

Allium splendens, *Miq. in Ann. Mus. Bot. Lugd.-Bat.* iii. p. 154.

Caloscordum exsertum, *Herb. in Bot. Reg.* (1847), sub t. 5.

Allium exsertum, *Baker, in Journ. Bot.* xii. (1874), p. 294, non *G. Don.*

SHINGKING: Moukden (*Webster*, 138, 233!); SHANTUNG (*Maingay*, 222!), Chefoo Mountains (*Faber*, 79!); CHEKIANG: Chusan (*Fortune*, 102!); KIANGSI (*Staunton*!), Kiukiang (*Shearer*!); HUPEH: Fang (*A. Henry*, 6739!), Tunghu (*A. Henry*, 7493!), Nanto (*A. Henry*, 3071, 4413!); SZECHUEN: North Wushan (*A. Henry*, 7038!). Mus. Brit.; Herb. Kew.

Japan.

2. **Allium Bouddhæ**, *Debeaux, Fl. Tchef.* p. 137; *Fl. Tients.* p. 44; *Franch. in Mém. Soc. Sc. Nat. Cherbourg*, xxiv. (1882) p. 259.

CHIHLI: Tientsin (ex *Debeaux*); SHANTUNG: Chefoo (ex *Debeaux*).

This is said by Franchet to greatly resemble *Allium ascalonicum*, Linn. Debeaux states that this species is extensively cultivated in Northern China and used, in the fresh state, in Chinese cookery.

3. **Allium Cepa**, *Linn. Sp. Pl.* ed. 1, p. 300; *Lour. Fl. Cochinch.* p. 201; *Bretschn. Early Res.* p. 178.

Extensively cultivated in China.

4. **Allium chinense**, *G. Don, Monogr. All.* p. 83; *Kunth, Enum. Pl.* iv. p. 454; *Baker, in Journ. Bot.* xii. (1874) p. 291.

Allium Thunbergii, *G. Don, Monogr. All.* p. 84, non *Franch.*; *Kunth, Enum. Pl.* iv. p. 454; *Miq. in Ann. Mus. Bot. Lugd.-Bat.* iii. p. 154;

A. Gray, Rep. Perry's Exp. p. 322; *Debeaux, Fl. Tchef.* p. 139; *Regel, Alliorum Monogr.* p. 234, ex parte; *Act. Hort. Petrop.* x. (1887) p. 355; *Baker et S. Moore, in Journ. Linn. Soc., Bot.* xvii. (1879) p. 388.

Allium triquetrum, *Lour. Fl. Cochinch.* p. 202.

Allium nereidum, *Hance, in Ann. Sc. Nat.* 5ᵐᵉ sér. v. (1866) p. 244; *Franch. in Mém. Soc. Sci. Nat. Cherbourg,* xxiv. (1882) p. 259

Allium Grayi, *Regel, Alliorum Monogr.* p. 125; *Franch. et Savat. Enum. Pl. Jap.* p. 76; *Franch. Pl David.* i. p. 304; *Regel, in Act. Hort. Petrop.* x. (1889) p. 325; *Baroni, in Bull. Soc. Bot. Ital.* (1898) p. 185.

Allium odorum, *Lour. Fl. Cochinch.* p. 203, non *Linn.*

CHIHLI: Jehol (*David* ex *Franchet*); SHINGKING: Chienshan (*Ross*!), Moukden (*James*!); SHANTUNG: Chefoo (*Wykeham Perry*! *F. B. Forbes*! *Hance,* 7487! *King*!) KIANGSU: Shanghai (*Maingay,* 410!); CHEKIANG: Ningpo (*Oldham,* 82!); KIANGSI: Kiukiang (*Shearer*!); FOKIEN: Lamyit Island (*Swinhoe*!); FORMOSA: Tamsui (*Oldham,* 564!); HUPEH: Hsingshan (*A. Henry,* 6926!), Ichang (*A. Henry,* 563! *Watters*!); SHENSI: Mount Sikutzuisan (*Giraldi* ex *Baroni*); COREA (*Wykeham Perry,* 45!); COREAN ARCHIPELAGO (*Oldham,* 875!); LUCHU ARCHIPELAGO (*Beechey*! *Wright,* 333!). Mus. Brit.; Herb. Kew.

Japan.

Although *Allium Grayi* is separated from *A. chinense,* G. Don, by Regel and placed in another section of the genus, it does not appear to differ even specifically from the latter.

5. **Allium chrysocephalum,** *Regel, in Act. Hort. Petrop.* x. (1887) pp. 291 et 335, t. 3. fig. 1.

KANSUH: Tangut (*Przewalski*). Herb. Kew.

6. **Allium condensatum,** *Turcz. Fl. Baic.-Dahur.* n. 1151, absque descr.; *Bull. Soc. Nat. Mosc.* xxvii. (1854), ii. p. 121; *Kunth, Enum. Pl.* iv. p. 456; *Maxim. Prim. Fl. Amur.* pp. 281 et 478; *Regel, in Act. Hort. Petrop.* iii. (1875) p. 105; *Franch. Pl. David.* i. p. 304.

Allium Stevenii, *Willd.,* var. ε, *Ledeb. Fl. Ross.* iv. p. 177.

CHIHLI: Jehol (*David,* 1964, 2817, 2818, ex *Franchet*), Peking (ex *Maximowicz*).

Dahuria, Amur, and Mandshuria.

7. **Allium cyaneum**, *Regel, in Act. Hort. Petrop.* iii. (1875) p. 174, et x. p. 345, t. 4. fig. 3 *c* (excl. var. *β. brachystemon*); *Kanitz, Bot. Res. Széch. Centr. As. Exped.* p. 59.

KANSUH: Tangut (*Przewalski* !); SZECHUEN: Tachienlu (*Lóczy*, 257, ex *Kanitz*). Herb. Kew.

8. **Allium cyathophorum**, *Franch. in Journ. de Bot.* v. (1891) p. 154.

SZECHUEN: Tachienlu (*Bonvalot* ex *Franchet*).

9. **Allium Fetisowii**, *Regel, in Act. Hort. Petrop.* v. (1877) p. 631; *Gartenfl.* t. 971. figs. *a–f*; *Kanitz, Bot. Res. Széch. Centr. As. Exped.* p. 59.

KANSUH: Czingeson (*Lóczy*, 177, ex *Kanitz*).

Eastern Turkestan.

10. **Allium fistulosum**, *Linn. Sp. Pl.* ed. 1, p. 301; *Bretschn. Early Res.* p. 178.

Cultivated in Northern China.

11. **Allium flavovirens**, *Regel, in Act. Hort. Petrop.* x. (1887) pp. 294 et 344, t. 8. fig. 1.

KANSUH (*Przewalski* ex *Regel*).

12. **Allium** (§ **Rhiziridium**) **Henryi**, *C. H. Wright, in Kew Bulletin* (1895), p. 119.

HUPEH: Hsingshan (*A. Henry*, 6924 !). Mus. Brit.; Herb. Kew.

This is allied to *A. Przewalskianum*, var. *planifolium*, Regel, from which it differs in having longer leaves and pedicels, a shorter broader spathe, and fewer flowers.

13. **Allium Herderianum**, *Regel, in Act. Hort. Petrop.* x. (1887) pp. 289 et 324, t. 8. fig. 2.

KANSUH (ex *Regel*).

14. **Allium japonicum**, *Regel, Alliorum Monogr.* p. 133; *Franch. et Savat. Enum. Pl. Jap.* ii. p. 77; *Franch. in Mém. Soc. Sc. Nat. Cherbourg*, xxiv. (1882) p. 259.

SHANTUNG: Chefoo (*Fauvel* ex *Franchet*).

Japan.

15. **Allium jeholense**, *Franch. Pl. David.* i. p. 305.

CHIHLI: Jehol (*David*, 2157, ex *Franchet*).

16. **Allium kansuense**, *Regel, in Act. Hort. Petrop.* x. (1887) pt. II. p. 690; *Gartenfl.* t. 1317; *Bot. Mag.* t. 7290.

Allium cyaneum, β. brachystemon, *Regel, in Act. Hort. Petrop.* x. (1887) p. 346.

KANSUH: Tangut (*Przewalski*); SZECHUEN: Tachienlu (*Soulié*, 434!), Tongolo (*Soulié*, 256!). Herb. Kew.

17. **Allium lineare**, *Linn. Sp. Pl.* ed. 1, p. 295; *Baker & S. Moore, in Journ. Linn. Soc., Bot.* xvii. (1879) p. 388; *Regel, Alliorum Monogr.* p. 166; *Allii Sp. Asiæ Cent.* p. 66.

SHINGKING: Moukden (*James*! *Ross*, 348, 444!), Chienshan (*Ross*, 477, 558!). Herb. Kew.

Caucasus, Central and Northern Asia, Sachalin Islands.

18. **Allium macrostemon**, *Bunge, in Mém. Sav. Etr. Acad. Pétersb.* ii. (1835) p. 139; *Enum. Pl. Chin. Bor.* p. 65; *Franch. et Savat. Enum. Pl. Jap.* ii. p. 76; *Regel, Alliorum Monogr.* p. 105.

CHIHLI: Peking (*Bunge*, *Bretschneider*, 783!). Herb. Kew.

Mandshuria and Japan.

19. **Allium monadelphum**, *Turcz.*, var. **tibeticum**, *Regel, in Act. Hort. Petrop.* x. (1887) p. 311.

KANSUH: Dshachar-Dsargyn (*Przewalski* ex *Regel*).

20. **Allium odorum**, *Linn. Mant.* p. 62; *Bot. Mag.* t. 1142; *Kunth, Enum. Pl.* iv. p. 432; *Franch. in Mém. Soc. Sc. Nat. Cherbourg*, xxiv. (1882) p. 260; *Franch. et Savat. Enum. Pl. Jap.* ii. p. 78; *Baker, in Journ. Bot.* xii. (1874) p. 291; *Regel, Alliorum Monogr.* p. 175; *Act. Hort. Petrop.* x. (1887) p. 346; *Hook. f. Fl. Brit. Ind.* vi. p. 343; *Franch. Pl. David.* i. p. 306.

Allium uliginosum, *G. Don, in Mem. Wern. Soc.* vi. (1832) p. 60; *Hance, in Ann. Sci. Nat.* 5me sér. v. (1866) p. 245.

Allium tuberosum, *Roxb. Hort. Beng.* p. 24, et *Fl. Ind.* ii. p. 141; *Kunth, Enum. Pl.* iv. p. 454; *Baker, in Journ. Bot.* xii. (1874) p. 291; *Hook. f. Fl. Brit. Ind.* vi. p. 343.

Allium senescens, *Miq. in Ann. Mus. Bot. Lugd.-Bat.* iii. p. 154.

CHIHLI: Peking (*Bullock*! *Bushell*! *Bretschneider*! *Cantor*! *Williams*! *David*!), Mount Conolly (*Bullock*!); SHINGKING:

Moukden (*Webster*, 199 !); SHANTUNG: Chefoo (*Swinhoe*, 4! *Fauvel* ex *Franchet*); KIANGSU: Shanghai (*Faber*! *Maingay*!); HUPEH: Patung (*A. Henry*, 2884, 4656, 5109, 6929 A !), Ichang (*A. Henry*, 443 !), Hsingshan (*A. Henry*, 6929 !); HUNAN (*A. Henry*, 7537, 7940 !); KWANGTUNG (*Ford*, 366 !); HONGKONG (*Hance*!); FORMOSA: Takow (*A. Henry*, 1856 !). Mus. Brit.; Herb. Kew.

Siberia.

21. **Allium polyrhizum,** *Turcz. ex Regel, Alliorum Monogr.* p. 162, *et in Act. Hort. Petrop.* x. (1887) p. 339.

KANSUH: Tangut (*Przewalski* ex *Regel*).

22. **Allium Prattii,** *C. H. Wright*, n. sp.

Glabrum. *Bulbus* cylindricus, fibris reticulatis involutus. *Folia* ligulata, basi apiceque attenuata, 9 poll. longa, 6 lin. lata. *Pedunculus* foliis æquilongus, cylindricus. *Spatha* scariosa, 6 lin. longa, acuminata. *Pedicelli* 6–7 lin. longi, apice non incrassati. *Perianthii* segmenta oblonga, acuta. *Filamenta* perianthio paullo longiora, basi breviter connata, alterna lanceolata. *Ovarium* profunde trilobatum; stylus brevis.

SZECHUEN: Tachienlu (*Pratt*, 576 !), Tongola (*Soulié*, 669 !). Herb. Kew.

Allied to *Allium Stoliczki*, Regel.

23. **Allium Przewalskianum,** *Regel, Alliorum Monogr.* p. 164, *et in Act. Hort. Petrop.* x. (1887) p. 343, t. 4. fig. 2; *Kanitz, Bot. Res. Szech. Centr. As. Exped.* p. 59.

KANSUH: River Tetung (*Przewalski* ex *Regel*), Kunesangfu (*Lóczy*, 132 *b*, ex *Kanitz*).

24. **Allium sacculiferum,** *Maxim. Prim. Fl. Amur.* p. 281; *Regel, Alliorum Monogr.* p. 171.

Allium longistylum, *Baker, in Journ. Bot.* xii. (1874) p. 294.

NORTH CHINA: between Peking and Moukden (*Staunton*!); FOKIEN: Amoy, Namtaiwu (without collector's name, 1431 !). Mus. Brit.

Central and Northern Asia.

25. **Allium sativum,** *Linn. Sp. Pl.* ed. 1, p. 296; *Lour. Fl. Cochinch.* p. 201; *Bretschn. Early Res.* p. 178.

Cultivated throughout China.

26. **Allium Semenovi**, *Regel, in Bull. Soc. Nat. Mosc.* xli. (1868) i. p. 449; *Alliorum Monogr.* p. 85; *Baker, in Journ. Bot.* xii. (1874) p. 293.

SZECHUEN: Tachienlu (*Pratt*, 733!). Herb. Kew.

Mongolia, Temperate and Alpine Himalayas.

27. **Allium senescens**, *Linn. Sp. Pl.* ed. 1, p. 299; *Kunth, Enum. Pl.* iv. p. 421; *Bot. Mag.* t. 1150; *Regel, Alliorum Monogr.* p. 137; *Allii Sp. Asiæ Centr.* p. 58.

Allium angulosum, *Ker-Gawl. in Bot. Mag.* t. 1149, non *Linn.*; *Red. Lil.* t. 281.

Allium baicalense, *Willd. Enum. Hort. Berol.* p. 360.

SHINGKING: Changpeishan (*James*!). Herb. Kew.

Central Europe, Central and Northern Asia, Japan.

28. **Allium subangulatum**, *Regel, in Act. Hort. Petrop.* x. (1887) pp. 292 et 340, t. 5. fig. 1.

KANSUH: Tangut (*Przewalski*!). Herb. Kew.

29. **Allium tanguticum**, *Regel, in Act. Hort. Petrop.* x. (1887) pp. 287 et 317, t. 2. fig. 1.

KANSUH: Tangut (*Przewalski*). Herb. Kew.

30. **Allium tchefouense**, *Debeaux, Fl. Tchef.* p. 138; *Franch. in Mém. Soc. Sc. Nat. Cherbourg*, xxiv. (1882) p. 259.

SHANTUNG: Chefoo (*Debeaux*).

31. **Allium tenuissimum**, *Linn. Sp. Pl.* p. 301; *Baker, in Journ. Bot.* xii. (1874) p. 292; *Regel, Alliorum Monogr.* p. 157; *Allii Sp. Asiæ Cent.* p. 63; *Debeaux, Fl. Tchef.* p. 138; *Franch. Pl. David.* i. p. 305; *Franch. in Mém. Soc. Sc. Nat. Cherbourg*, xxiv. (1882) p. 259.

CHIHLI: Peking (*Staunton*! *Bushell*! *Cantor*! *Williams* in hb. *Hance*, 11463! *Bretschneider*! *Bullock*!); SHANTUNG: Chefoo (*Faber*, 80! *Forbes*!); KIANGSI: Kiukiang (*Bullock*, 27!); HUPEH: Fang (*A. Henry*, 6860!). Mus. Brit.; Herb. Kew.

Siberia.

Var. **anisopodium**, *Regel, Alliorum Monogr.* p. 157; *Allii Sp. Asiæ Cent.* p. 63; *Baker, in Journ. Bot.* xii. (1874) p. 292.

Allium anisopodium, *Ledeb. Fl. Ross.* iv. p. 183.

CHIHLI: Peking (*Bretschneider*!); KANSU: Tangut (*Przewalski*!); FORMOSA (ex *Regel*). Mus. Brit.; Herb. Kew.

Siberia and Mongolia.

32. **Allium uratense**, *Franch. Pl. David.* i. p. 304.

CHIHLI: Jehol (*David* ex *Franchet*).

Mongolia.

33. **Allium venustum**, *C. H. Wright*, n. sp.

Gracilis. *Bulbus* ignotus. *Folia* linearia, plana, glabra, obtusa, 10 poll. longa, 1 lin. lata. *Scapus* erectus, foliis æquilongus, 8–12-florus; spatha membranacea, suborbicularis. *Perianthii* segmenta ovata, subacuta, cæruleo-purpurea. *Stamina* inclusa; filamenta in tubo alte connata, perianthio breviter adnata; antheræ oblongæ. *Ovarium* oblongum; stylus brevis.

SZECHUEN: Tachienlu (*Soulié*, 609!). Herb. Kew.

This species much resembles *Allium Henryi*, C. H. Wright, which differs in having broader leaves and free stamens, with the alternate filaments toothed. It is also allied to *Allium Griffithianum*, Boiss.

34. **Allium Victorialis**, *Linn. Sp. Pl.* ed. 1, p. 295; *Kunth, Enum. Pl.* iv. p. 432; *Red. Lil.* t. 265; *Bot. Mag.* t. 1222; *Miq. in Ann. Mus. Bot. Lugd.-Bat.* iii. p. 154; *Maxim. Prim. Fl. Amur.* p. 283; *Franch. et Savat. Enum. Pl. Jap.* ii. p. 78; *Franch. Pl. David.* p. 306; *Regel, Alliorum Monogr.* p. 170; *Allii Sp. Asiæ Cent.* p. 68: *Hook. f. Fl. Brit. Ind.* vi. p. 342.

Cepa victorialis, *Mœnch, Meth.* p. 243.

Allium ellipticum, *Wall. Cat.* n. 5069; *Kunth, Enum. Pl.* iv. p. 456.

Allium plantagineum, *Lam. Fl. Franç.* iii. p. 262.

CHIHLI: Jehol (*David* ex *Franchet*), Pohuashan (*David*, 1843, ex *Franchet*); HUPEH: Hsingshan (*A. Henry*, 5590 F!), Tunghu (*A. Henry*, 5590 E!), South Patung (*A. Henry*, 5590 C!); KANSUH: Tangut (*Przewalski*!); SZECHUEN: South Wushan (*A. Henry*, 5590!). Mus. Brit.; Herb. Kew.

Central Europe, Central and Northern Asia, Temperate Himalayas, Japan, North-west America.

Var. **angustifolia**, *Hook. f. Fl. Brit. Ind.* vi. p. 342.

SZECHUEN: Tachienlu (*Soulié*, 623!). Herb. Kew.

Sikkim, Western Nepal.

35. **Allium weichanicum,** *Palibin, in Act. Hort. Petrop.* xiv. (1895) p. 142.

CHIHLI: Weichang (ex *Palibin*).

36. **Allium** sp. *A. tangutico*, Regel, affine.

SZECHUEN: Tachienlu (*Soulié*, 129!). Herb. Kew.

1. **Scilla chinensis,** *Benth. Fl. Hongk.* p. 373; *Baker, in Journ. Linn. Soc., Bot.* xiii. (1872) p. 233; *Franch. in Mém. Soc. Sc. Nat. Cherbourg*, xxiv. (1882) p. 259; *Franch. Pl. David.* i. p. 306; *Debeaux, Fl. Tchef.* p. 136.

Barnardia scilloides, *Lindl. in Bot. Reg.* t. 1029; *Hook. Bot. Mag.* t. 3788; *Maxim. Ind. Fl. Pek. in Prim. Fl. Amur.* p. 478; *Kunth, Enum. Pl.* iv. p. 337.

CHIHLI: Peking (*Bretschneider*, 754! *Bushell*! *Williams*, 291!), Chihli Plains (*David*, 398, ex *Franchet*); SHINGKING: Chienshan (*Ross*, 317!); SHANTUNG: Chefoo (*F. B. Forbes*! *Maingay*, 110! *Fauvel* ex *Franchet*); KIANGSU: near Shanghai (*Carles*, 211!); KIANGSI: Kiukiang (*F. B. Forbes*! *Shearer*! *David*, 918, ex *Franchet*); HUPEH: Ichang (*A. Henry*, 126, 2927, 3264!), Nanto (*A. Henry*, 4411, 2927, 3264!); KWANGTUNG: Lappa Island (*Vachell*!); HONGKONG: Chuckchew (*Champion*!); COREA: Chemulpo (*Carles*, 186!). Mus. Brit.; Herb. Kew.

2. **Scilla japonica,** *Baker, in Journ. Linn. Soc., Bot.* xiii. (1872) p. 233, non *Thunb.*

Ornithogalum japonicum, *Thunb. Fl. Jap.* p. 137.

Barnardia japonica, *Rœm. et Schult. Syst.* vii. p. 555; *Kunth, Enum. Pl.* iv. p. 337.

COREA (*Wykeham Perry*, 68!); LUCHU ARCHIPELAGO (*Wright*, 331!). Herb. Kew.

Japan.

1. **Lilium amabile,** *Palibin, in Act. Hort. Petrop.* xix. (1901) p. 113.

COREA: Kyongkwi, Soul (*Kalinowski* ex *Palibin*).

2. **Lilium apertum,** *Franch. in Journ. de Bot.* xii. (1898) p. 220.

Lilium oxypetalum, *Franch. in Journ. de Bot.* vi. (1892) p. 320, non *Baker.*

Yunnan: Tchangchan (*Delavay*, 4178, ex *Franchet*), Maeulchan (*Delavay* ex *Franchet*).

Var. **thibetica**, *Franch. in Journ. de Bot.* xii. (1898) p. 221.

Szechuen: Séla near the Mékong (*Soulié*, 1031, ex *Franchet*).

3. **Lilium Bakerianum**, *Collett et Hemsl. in Journ. Linn. Soc., Bot.* xxviii. (1890) p. 138, t. 22.

Yunnan: Szemao, 6000 ft. (*A. Henry*, 13026 !). Herb. Kew.

This species, previously known only from the Shan States, supports the theory advanced by Dr. A. Henry in the Kew Bulletin (1898), p. 294, that the flora of the Szemao district is closely allied to that of Upper Burma.

4. **Lilium Brownii**, *F. E. Brown*, ex *Spae in Ann. Soc. Agric. de Gand*, i. (1845) p. 437, t. 41, *et Mém. Couronn. Bruxelles*, xix. (1845–46) p. 11; non *Rev. Hort.* 2^{me} sér. ii. p. 496; *Fl. des Serres*, t. 46; *Elwes, Monogr. Lilium*, t. 8; *Baker, in Journ. Linn. Soc., Bot.* xiv. (1874) p. 230, *sub* L. japonico, *Thunb.*; *Baker, in Gard. Chron.* (1885) ii. p. 134 & (1891) ii. p. 225; *Franch. in Journ. de Bot.* vi. (1892) p. 312; *Baroni, in Nuovo Giorn. Bot. Ital.* iv. (1897) p. 303.

Lilium longiflorum, *Franch. Pl. David.* i. p. 307, non *Thunb.*

Lilium japonicum, *Sims, Bot. Mag.* t. 1591, non *Thunb.*; *Baker, in Journ. Linn. Soc., Bot.* xiv. (1874) p. 230, ex parte.

Lilium odorum, *Planch. in Fl. des Serres*, tt. 876–7.

Chusan Archipelago (*Fortune*, 66 !); Kiangsi: Kiukiang (*Bullock*, 87 ! *Shearer* ! *David*, 855, ex *Franchet*); Fokien: Amoy (*Maclaglan*, 111 !); Hupeh: Ichang (*A. Henry*, 514, 4160 !), Nanto (*A. Henry*, 2047, 2047 A !); Shensi (*Giraldi* ex *Baroni*); Szechuen: Tchenkeoutin (*Farges*, 174, ex *Franchet*); Yunnan: Mengtze, 4600–7000 ft. (*A. Henry*, 9453, 9453 A, 9453 B, 9453 C !); Hongkong (*Champion*, 23 !); Corean Archipelago (*Oldham*, 869 !), Herschel Island (*Oldham*, 1025 !); Kwangsi: Lungchow Hills (*Morse*, 602 !). Mus. Brit.; Herb. Kew.

Var. **chloraster**, *Baker, in Gard. Chron.* (1891) ii. p. 225.

Lilium longiflorum, var. chloraster, *Baker, in Gard. Chron.* (1891) ii. p. 66.

Hupeh: Ichang (*A. Henry*, 4162 !). Herb. Kew.

Var. **leucanthum**, *Baker, in Gard. Chron.* (1894) ii. p. 180; *Bot. Mag.* t. 7722.

Hupeh: Ichang (*A. Henry* !).

5. **Lilium callosum**, *Sieb. et Zucc. Fl. Jap.* p. 86, t. 41; *Miq. in Ann. Mus. Bot. Lugd.-Bat.* iii. p. 156; *Kunth, Enum. Pl.* iv. pp. 262, 674; *Baker, in Journ. Hort. Soc.* n. s. iv. (1877) p. 46; *in Journ. Linn. Soc., Bot.* xiv. (1874) p. 250; *Franch. et Savat. Enum. Pl. Jap.* ii. p. 65; *Elwes, Monogr. Lilium*, t. 41.

Lilium pomponicum, *Thunb. Fl. Jap.* p. 134, excl. syn.

HUPEH: Ichang (*A. Henry*, 2327!); COREA: Soul (*J. H. Veitch*, 87!); LUCHU ARCHIPELAGO (ex *Kunth*). Herb. Kew.

Japan, Mandshuria, Dahuria.

6. **Lilium concolor**, *Salisb. Parad.* t. 47; *Lindl. & Paxt. Flow. Gard.* ii. p. 115, fig. 193; *Baker, in Journ. Linn. Soc., Bot.* xiv. (1874) p. 236; *Baker, in Journ. Hort. Soc.* n. s. iv. (1877) p. 44; *Kunth, Enum. Pl.* iv. p. 259; *Baroni, in Nuovo Giorn. Bot. Ital.* iv. (1897) p. 304. Typus bulbis solitariis, foliis latis, floribus immaculatis.

Lilium sinicum, *Fl. des Serres*, t. 1206; *Ill. Hort.* 1856, t. 100.

Var. **sinicum**, *Hook. f. in Bot. Mag.* t. 6005; bulbis solitariis, foliis latis, floribus maculatis.

Lilium concolor, *Bot. Mag.* t. 1165.

Var. **Buschianum**, *Baker, in Journ. Linn. Soc., Bot.* xiv. (1874) p. 236; bulbis solitariis, foliis angustis, floribus maculatis.

Lilium Buschianum, *Lodd. Bot. Cab.* t. 1628.

Lilium pulchellum, *Fisch. in Fisch., Meyer et Avé-Lall., Ind. Sem. Hort. Petrop.* vi. p. 56; *Gartenfl.* t. 284. fig. 2; *Rev. Hort.* (1862) p. 131.

Lilium concolor, var. pulchellum, *Baker, in Journ. Linn. Soc., Bot.* xiv. (1874) p. 237.

Lilium concolor, *Elwes, Monogr. Lilium*, t. 18. fig. 1.

Lilium partheneion, *Sieb. et De Vriese, in Tuinb. Flora*, ii. p. 341.

CHIHLI: Peking (*Bushell*!), Jehol (*David*, 1864!), Sylinchan (*Provost*, 139, ex *Franchet*); SHINGKING: Moukden (*James*!), Changpeishan (*James*!), Peilung (*Webster*!), Chienshan (*Ross*, 370!), Toonghuahien (*Ross*!); SHANTUNG: Chefoo (*Wykeham Perry*! *Hancock*, 7! *Fauvel* ex *Franchet*); SHANSI? between Taiming and Liuchiachung (*Pierson* in hb. *Hance*, 13273!); CHEKIANG: Ningpo (*Cooper*!), Tinghae (*Sandilands*!); SHENSI: Mount Tunusse (*Giraldi* ex *Baroni*), Peishan (*Maximowicz*!). Mus. Brit.; Herb. Kew.

Eastern Siberia, Japan.

This species has long been in cultivation in China and Japan, whence it was introduced into Europe. It presents a series of forms, which so gradually merge into each other, that any attempt at grouping into varieties is a matter of great difficulty. The segments of the perianth vary much in direction and also in spotting, the type being quite destitute of spots.

7. **Lilium cordifolium**, *Thunb. in Trans. Linn. Soc.* ii. (1797) p. 332, non *D. Don*; *Kunth, Enum. Pl.* iv. p. 268; *Baker, in Journ. Linn. Soc., Bot.* xiv. (1874) p. 227; *Franch. et Savat. Enum. Pl. Jap.* ii. p. 72; *Franch. in Journ. de Bot.* vi. (1892) p. 309; *Gard. Chron.* (1877) ii. p. 304, fig. 61; *Baker, in Bot. Mag.* t. 6337; *Kew Bulletin*, 1889, p. 118.

Hemerocallis cordata, *Thunb. Fl. Jap.* p. 143.

KIANGSI: Kiukiang (*David*, 846, ex *Franchet*).

Japan.

The bulb of this species is eaten by the Japanese.

8. **Lilium Delavayi**, *Franch. in Journ. de Bot.* vi. (1892) p. 314.

YUNNAN: Lankong (*Delavay*, 4310, ex *Franchet*), Koutoui (*Delavay* ex *Franchet*), Yanginchan (*Delavay*, 4309, ex *Franchet*), Houanglipin (*Delavay*, 3576, ex *Franchet*).

9. **Lilium Duchartrei**, *Franch. Pl. David.* ii. p. 128, *et in Journ. de Bot.* vi. (1892) p. 316.

KANSUH: Tshagon (*Potanin*!); SZECHUEN: Tachienlu (*Prince Henri d'Orléans* ex *Franchet*); YUNNAN: Koutoui (*Delavay*, 3983, ex *Franchet*). Herb. Kew.

10. **Lilium Fargesii**, *Franch. in Journ. de Bot.* vi. (1892) p. 317.

SZECHUEN: Tchenkeoutin (*Farges* ex *Franchet*).

11. **Lilium formosum**, *Franch. in Journ. de Bot.* vi. (1892) p. 313.

SZECHUEN: Tchenkeoutin (*Farges*, 231, ex *Franchet*).

12. **Lilium giganteum**, *Wall. Tent. Fl. Nep.* 21, tt. 12–13; *Bot. Mag.* t. 4673; *Baker, in Journ. Linn. Soc., Bot.* xiv. (1874)

p. 227; *Kunth, Enum. Pl.* iv. p. 268; *Hook. f. Fl. Brit. Ind.* vi. p. 349; *Franch. in Journ. de Bot.* vi. (1892) p. 310.

Lilium cordifolium, *D. Don, Prodr. Fl. Nepal.* p. 52, non *Thunb.*

HUPEH: Patung (*A. Henry*, 3141, 4085!), Nanto (*A. Henry*, 2681, 4545, 6197 B!), Changyang (*A. Henry*, 6197 A!), Chienshih (*A. Henry*, 5376!); YUNNAN: Mengtze, 6000–9000 ft. (*Hancock*, 300! *A. Henry*, 10805!). Mus. Brit.; Herb. Kew. —?

Temperate Himalayas.

Dr. A. Henry says of the Patung plant that his collector "calls this *Peh Wa*, and says that the root is used in surgery. This name I have not seen mentioned in books. Large lilies with edible bulbs are named Peh Ho at Patung and Ichang."

13. **Lilium Henrici**, *Franch. in Journ. de Bot.* xii. (1898) p. 220.

YUNNAN: on the banks of the Mékong, near Loukou (*Prince Henri d'Orléans* ex *Franchet*).

14. **Lilium Henryi**, *Baker, in Gard. Chron.* (1888) ii. p. 660, et (1890) ii. p. 380, fig. 75; *Bot. Mag.* t. 7177.

HUPEH: Ichang (*A. Henry*, 4205, 4245, 4378!). Mus. Brit.; Herb. Kew.

15. **Lilium lankongense**, *Franch. in Journ. de Bot.* vi. (1892) p. 317.

YUNNAN: Lankong (*Delavay*, 4437, ex *Franchet*), Heechanmen (*Delavay*, 2559, ex *Franchet*), Mosoyn (*Delavay*, 3795, ex *Franchet*).

16. **Lilium longiflorum**, *Thunb. in Trans. Linn. Soc.* ii. (1797) p. 333; *Kunth, Enum. Pl.* iv. p. 266; *Walp. Ann.* iii. p. 628; *Lodd. Bot. Cab.* t. 985; *Fl. des Serres*, t. 270; *Miq. in Ann. Mus. Bot. Lugd.-Bat.* iii. p. 157; *Benth. Fl. Hongk.* p. 374; *Swinhoe, List of Formosa Plants*, no. 189; *Baker, in Journ. Linn. Soc., Bot.* xiv. (1874) p. 229; *Hance, in Journ. Bot.* xii. (1874) p. 262; *Franch. et Savat. Enum. Pl. Jap.* ii. p. 71; *Franch. in Journ. de Bot.* vi. (1892) p. 311 (non *Pl. David.* i. p. 307); *Baker, in Gard. Chron.* (1891) ii. p. 225.

Lilium candidum, *Thunb. Fl. Jap.* p. 133.

Lilium longiflorum, var. suaveolens, *Bot. Reg.* t. 560.

Lilium Jama Juri, *Sieb. et De Vriese, in Tuinbouw Fl.* i. p. 319, t. 11.

FOKIEN: Amoy (*Fortune*, 57!); FORMOSA: Tamsui (*Oldham*, 565! *Swinhoe*! *Hancock*, 24! *Maries*!); KWANGTUNG: Lofaushan (*Ford*!); HONGKONG (*Urquhart*! *Hance*, 626! *Lamont*, 802!); LUCHU ARCHIPELAGO (*Beechey*! *Wright*, 334!), Oosima (*Carpenter*!). Herb. Kew.

Japan.

17. **Lilium lophophorum**, *Franch. in Journ. de Bot.* xii. (1898) p. 221.

Fritillaria lophophora, *Franch. in Journ. de Bot.* v. (1891) p. 153; *Hook. Ic. Pl.* t. 2219.

SZECHUEN: between Batang and Litang (*Bonvalot* ex *Franchet*), Tachienlu (*Pratt*, 261, 568!), Tongola (*Soulié*, 296, 326, 725!) between Litang and Tatsien (*Prince Henri d'Orléans* ex *Franchet*); YUNNAN: near Likiang (*Delavay*, 28, 237 ex *Franchet*), Fangyangtchang (*Delavay* ex *Franchet*). Herb. Kew.

18. **Lilium Lowii**, *Baker, in Bot. Mag.* t. 7232; *Hook. f. Fl. Brit. Ind.* vi. p. 350; *Gard. Chron.* (1893) i. p. 121, fig. 29; *Journ. Hort.* ser. 3, xxvii. (1893) p. 79, fig. 13.

Lilium nepalense, *Collett et Hemsl. in Journ. Linn. Soc., Bot.* xxviii. (1890) p. 138, non *D. Don.*

1 YUNNAN: Mengtze, 5000–7000 ft. (*Hancock*, 214, 309, 568! (*A. Henry*, 10774, 10774 A!). Herb. Kew.

Burma.

19. **Lilium medeoloides**, *A. Gray, in Mem. Amer. Acad.* vi. (1859) p. 415; *Oliver, in Journ. Linn. Soc., Bot.* ix. (1865) p. 169; *Franch. et Savat. Enum. Pl. Jap.* ii. p. 63, excl. syn.; *Miq. in Ann. Mus. Bot. Lugd.-Bat.* iii. p. 156; *Baker, in Journ. Linn. Soc., Bot.* xiv. (1874) p. 236; *Elwes, Monogr. Lilium*, t. 35, fig. sinist.

CHEKIANG: Tsien Mountains (*Faber*, 1543!); COREAN ARCHIPELAGO (*Oldham*, 873, 1024!). Herb. Kew.

Japan.

20. **Lilium mirabile**, *Franch. in Journ. de Bot.* vi. (1892) p. 310.

SZECHUEN: Tchenkeoutin (*Farges* ex *Franchet*).

21. **Lilium myriophyllum**, *Franch. in Journ. de Bot.* vi. (1892) p. 313.

YUNNAN: Mosoyn (*Delavay*, 3273, 3817, 4784, ex *Franchet*).

22. **Lilium nepalense,** *D. Don, in Mem. Wern. Soc.* iii. (1820) p. 412, et *Prodr. Fl. Nepal.* p. 52; *Wall. Pl. As. Rar.* iii. p. 67, t. 291; *Baker, in Journ. Linn. Soc., Bot.* xiv. (1874) p. 231; *Elwes, Monogr. Lilium,* t. 5; *Bot. Mag.* t. 7043; *Hook. f. Fl. Brit. Ind.* vi. p. 350.

YUNNAN: Mengtze, 5000–7000 ft. (*A. Henry,* 9320! *Hancock,* 392!). Herb. Kew.

Himalayas.

A species with numerous forms, several of which are in cultivation.

23. **Lilium ochraceum,** *Franch. in Journ. de Bot.* vi. (1892) p. 319.

YUNNAN: Tchangchan (*Delavay*), Tapintze (*Delavay,* 369), Kanhaydze (*Delavay,* 3274, ex *Franchet*).

24. **Lilium papilliferum,** *Franch. in Journ. de Bot.* vi. (1892) p. 316.

Lilium Biondii, *Baroni, in Nuovo Giorn. Bot. Ital.* n. s. ii. (1895) p. 337, tt. 8–9, et iv. (1897) p. 304.

YUNNAN: Chouimaouan (*Delavay,* 4592, ex *Franchet*); SHENSI: Mount Thaepechan (*Giraldi* ex *Baroni*).

25. **Lilium pseudotigrinum,** *Carrière, in Rev. Hort.* (1867) p. 411; *Baker, in Journ. Linn. Soc., Bot.* xiv. (1874) p. 248; *Franch. in Journ. de Bot.* vi. (1892) p. 319.

SZECHUEN: Tchenkeoutin (*Farges* ex *Franchet*); YUNNAN: Mengtze, 6000 ft. (*A. Henry,* 10774 B!). Herb. Kew. ?

The leaves of the Mengtze plant are much shorter than those of the cultivated plant, upon which the species was founded, and resemble those of *L. papilliferum,* Franch.

26. **Lilium roseum,** *Wall. Cat.* n. 5077; *Bot. Mag.* t. 4725; *Belg. Hort.* (1854) p. 130, pl. 21. figs. 5–9; *Hook. f. Fl. Brit. Ind.* vi. p. 352.

Lilium Thomsonianum, *Lindl. in Bot. Reg.* (1845) t. 1; *Hook. f. Fl. Brit. Ind.* vi. p. 352; *Franch. in Journ. de Bot.* vi. (1892) p. 320.

Fritillaria macrophylla, *D. Don, Prodr. Fl. Nepal.* p. 51; *Kunth, Enum. Pl.* iv. p. 253; *Baker, in Journ. Linn. Soc., Bot.* xiv. (1874) p. 268.

Fritillaria Thomsoniana, *D. Don, in Royle, Ill. Him. Bot.* p. 388, t. 92. fig. 1; *Kunth, Enum. Pl.* iv. p. 672.

SZECHUEN: Tachienlu (*Pratt*, 480, 670! *Soulié*, 336! *Prince Henri d'Orléans* ex *Franchet*); YUNNAN: Yentzehay (*Delavay*, 3061, ex *Franchet*), Tchangchan (*Delavay*, 1098, ex *Franchet*). Herb. Kew.

Northern India, Afghanistan.

27. **Lilium speciosum**, *Thunb. in Trans. Linn. Soc.* ii. (1797) p. 332, *non Andr.*; *Kunth, Enum. Pl.* iv. p. 259; *Sieb. et Zucc. Fl. Jap.* p. 31, tt. 12–13. fig. 1; *Bot. Reg.* t. 2000; *Baker, in Journ. Linn. Soc., Bot.* xiv. (1874) p. 234; *Hance, in Journ. Bot.* xii. (1874) p. 262; *Franch. Pl. David.* p. 307; *Franch. et Savat. Enum. Pl. Jap.* ii. p. 67; *Franch. in Journ. de Bot.* vi. (1892) p. 315.

Lilium superbum, *Thunb. Fl. Jap.* p. 134, non *Linn.*

KIANGSI: Kiukiang (*Shearer*! *Möllendorff* in hb. *Hance*, 18422! *David*, 813, ex *Franchet*). Mus. Brit.; Herb. Kew.

Japan.

Var. **gloriosoides**, *Baker, in Gard. Chron.* (1880) ii. p. 198.

Lilium lancifolium, var. glorioides (*sic*), *Bretsch. Hist. Europ. Bot. Disc.* p. 742.

KIANGSI: Lushan, Dragon's Pool (*Maries* ex *Bretschneider*).

28. **Lilium sutchuenense**, *Franch. in Journ. de Bot.* vi. (1892) p. 318; *Baroni, in Nuovo Giorn. Bot. Ital.* n. s. iv. (1897) p. 304; *Bot. Mag.* t. 7715.

Lilium tenuifolium, var. punctatum, *Bur. et Franch. ex Franch. l. c.*

Lilium chinense, *Baroni, in Nuovo Giorn. Bot. Ital.* n. s. ii. (1895) p. 333, tt. 6–7.

SHENSI: Inkiapo (*Giraldi* ex *Baroni*); SZECHUEN: Tachienlu (*Prince Henri d'Orléans* ex *Franchet*), Tchenkeoutin (*Farges* ex *Franchet*).

Var. **atropurpureum**, *Baroni, in Nuovo Giorn. Bot. Ital.* n. s. iv. (1897) p. 304.

Lilium chinense, var. atropurpureum, *Baroni, l. c.* ii. (1895) p. 335.

SHENSI (*Giraldi* ex *Baroni*).

29. **Lilium taliense**, *Franch. in Journ. de Bot.* vi. (1892) p. 319.

YUNNAN: Koualapo (*Delavay* ex *Franchet*), Mosoyn (*Delavay* ex *Franchet*).

30. **Lilium tenuifolium,** *Fisch. Hort. Gorenk.* ed. 2 (1812) p. 8; *Schrank, Pl. Rar. Hort. Monac.* t. 91; *Schult. fil., Syst.* vii. p. 409; *Kunth, Enum. Pl.* iv. p. 263; *Bot. Mag.* t. 3140; *Maxim. Ind. Fl. Pek. in Prim. Fl. Amur.* p. 478; *Bunge, Enum. Pl. Chin. Bor.* p. 65; *Ledeb. Fl. Ross.* iv. p. 151; *Baker, in Journ. Linn. Soc., Bot.* xiv. (1874) p. 250; *Debeaux, Fl. Tchef.* p. 136; *Franch. in Mém. Soc. Sc. Nat. Cherbourg,* xxiv. (1882) p. 258; *in Bull. Soc. Bot. France,* xxix. (1882) p. 12; *et in Pl. David.* i. p. 307; *Kanitz, Bot. Res. Széch. Centr. As. Exped.* p. 59; *Franch. in Journ. de Bot.* vi. (1892) p. 318; *Baroni, in Nuovo Giorn. Bot. Ital.* iv. (1897) p. 305.

CHIHLI: Peking (*Bretschneider*! *Bushell*! *Provost,* 11, ex *Franchet, Williams* in hb. *Hance,* 6504! *David,* 401, ex *Franchet*), Jehol (*David,* 1886, ex *Franchet*), Yaloo River (*James*!); NORTHERN CHINA: Guangou (*Bunge,* 371); SHENSI: Mounts Thaepeisan, Gniuju, and Lunsanhuo (*Giraldi* ex *Baroni*); HUPEH: Ichang (*A. Henry,* 511!), Chienshih (*A. Henry,* 5917!), Fang (*A. Henry,* 6786!); KANSUH: Tangut (*Przewalski*!), Tonkerr (*Lóczy,* 15, ex *Kanitz*); COREA: Chemulpo (*Carles,* 129! *Veitch,* 86!) Mus. Brit.; Herb. Kew.

Dahuria.

31. **Lilium tigrinum,** *Ker-Gawl. in Bot. Mag.* t. 1237; *Kunth, Enum. Pl.* iv. p. 259; *Red. Lil.* t. 475; *Miq. in Ann. Mus. Bot. Lugd.-Bat.* p. 156; *Baker, in Journ. Linn. Soc., Bot.* xiv. (1874) p. 233; *Franch. et Savat. Enum. Pl. Jap.* ii. p. 66; *Franch. Pl. David.* i. p. 307, *et Journ. de Bot.* vi. (1892) p. 319; *Maxim. in Bull. Soc. Nat. Mosc.* (1879) p. 62; *Elwes, Monogr. Lilium,* t. 38.

Lilium speciosum, *Andr. Bot. Rep.* t. 586.

CHIHLI: Peking (*David,* 2310, ex *Franchet*); HUPEH: Ichang (*A. Henry,* 4140!), Patung (*A. Henry,* 2397!); SZECHUEN: Tchenkeoutin (*Farges,* 229, ex *Franchet*); COREA (*Wykeham Perry*!), Chemulpo (*Carles,* 180!); COREAN ARCHIPELAGO (*Oldham,* 871!). Mus. Brit.; Herb. Kew.

Japan.

Dr. A. Henry states that in Ichang this species is cultivated and the bulb eaten. Dried lily flowers are used by the Chinese for flavouring soups and as a remedy for pulmonary diseases. See *Kew Bulletin,* 1889, p. 116.

32. **Lilium yunnanense**, *Franch. in Journ. de Bot.* vi. (1892) p. 314.

YUNNAN: Tapintze (*Delavay*, 1837, 2737, 3577, ex *Franchet*), Mengtze, 6000 ft. (*A. Henry*, 10743! *Hancock*, 174!). Herb. Kew.

1. **Nomocharis meleagrina**, *Franch. in Journ. de Bot.* xii. (1898) p. 196.

SZECHUEN: Sela, on the Mékong (*Soulié*, 1032, ex *Franchet*).

2. **Nomocharis pardanthina**, *Franch. in Journ. de Bot.* iii. (1889) p. 113, t. 3.

YUNNAN: Mount Koualapo (*Delavay*, 257, ex *Franchet*).

This genus is intermediate between *Lilium* and *Fritillaria*, from both of which it differs in the following characters:—Lower part of the filaments inflated and hollow, foveola multifid and partly free, inner lobes of the perianth differing from the outer.

1. **Fritillaria camschatcensis**, *Ker-Gawl. in Bot. Mag.* sub t. 1216; *Lamb. in Trans. Linn. Soc.* x. (1811) p. 265, t. 11; *Kunth, Enum. Pl.* iv. p. 254.

Lilium camschatcense, *Linn. Sp. Pl.* ed. 1, p. 303; *Lour. Fl. Cochinch.* p. 207.

Fritillaria kamtschatcensis, *Fisch. ex Hook. Fl. Bor.-Amer.* ii. p. 181, t. 193*a*; *Baker, in Journ. Linn. Soc., Bot.* xiv. (1874) p. 273.

CHINA (ex *Loureiro*).

America north of the United States, Kamtschatka and Japan.

2. **Fritillaria cantoniensis**, *Lour. Fl. Cochinch.* p. 206; *Ker-Gawl. in Bot. Mag.* sub t. 1537; *Kunth, Enum. Pl.* iv. p. 255.

KWANGTUNG: Canton (ex *Loureiro*).

A doubtful plant, supposed by Gawler to be the same as *Uvularia chinensis*, which is now reduced to *Disporum pullum*, Salisb.

3. **Fritillaria cirrhosa**, *D. Don, Prodr. Fl. Nepal.* p. 51; *Kunth, Enum. Pl.* iv. p. 253; *Baker, in Journ. Linn. Soc., Bot.* xiv. (1874) p. 257; *Hook. f. Fl. Brit. Ind.* vi. p. 253.

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BOTANY

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B. DAYDON JACKSON,
General Secretary, Linn. Soc.

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THE JOURNAL

OF

THE LINNEAN SOCIETY.

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Fritillaria verticillata, *Wall. Cat.* 5079 A, non *Willd.*

SZECHUEN: near Tachienlu (*Pratt*, 609, 845, 852 !), Tongolo (*Soulié*, 707 !), Tcheto near Tongolo (*Soulié*, 578, ex *Franchet*). Herb. Kew.

Var. **ecirrhosa**, *Franch. in Journ. de Bot.* xii. (1898) p. 233.

SZECHUEN: Tachienlu (*Pratt*, 739, ex *Franchet*), Tizon (*Soulié*, 620, 707, ex *Franchet*).

Central and Eastern Himalayas.

4. **Fritillaria dagana**, *Turcz. in Flora*, xvii. (1834) i. p. 25; *Ledeb. Fl. Ross.* iv. p. 148; *Franch. Pl. David.* i. p. 308; *Baker, in Journ. Linn. Soc., Bot.* xiv. (1874) p. 271.

Imperialis dagana, *Turcz. Bull. Soc. Nat. Mosc.* (1837) i. p. 62, et 1838, p. 102.

CHIHLI: Jehol, Mount Nantachan (*David*, 1816, ex *Franchet*), Peishan (*David* in hb. *Hance*, 13188 !). Mus. Brit.

Siberia.

5. **Fritillaria Delavayi**, *Franch. in Journ. de Bot.* xii. (1898) p. 222.

YUNNAN: at the base of the glacier of Likiang (*Delavay*, 27, ex *Franchet*).

6. **Fritillaria Przewalskii**, *Maxim. ex Batalin, in Act. Hort. Petrop.* xiii. (1893) i. p. 105.

KANSUH: Tangut, Mudshik (*Przewalski* !), River Myndanscha (*Grum-Grschimailo* ex *Batalin*).

7. **Fritillaria Souliei**, *Franch. in Journ. de Bot.* xii. (1898) p. 221.

SZECHUEN: Dongchingtchratsong, near Tsékong on the Mékong (*Soulié*, 1029, ex *Franchet*).

8. **Fritillaria verticillata**, *Willd.*, var. **Thunbergii**, *Baker, in Journ. Linn. Soc., Bot.* xiv. (1875) p. 258; *Hance, in Journ. Bot.* xxi. (1883) p. 358.

Uvularia cirrhosa, *Thunb. Fl. Jap.* p. 136; *Kunth, Enum. Pl.* iv. p. 202.
Fritillaria Thunbergii, *Miq. Ann. Mus. Bot. Lugd.-Bat.* iii. p. 157.
Fritillaria collicola, *Hance, in Journ. Bot.* viii. (1870) p. 76.

CHINA (*Fortune*, 27 !); CHEKIANG (*Tarrant* in hb. *Hance*, 1665 !), Ningpo (*Maries* !), Meichi (*Forbes & Carles* !); YUNNAN:

summit of Lopinchan (*Delavay*, 2066, ex *Franchet*). Mus. Brit.; Herb. Kew.

Var. **ecirrhosa**, *Franch. in Journ de Bot.* xii. (1898) p. 223.

SZECHUEN: Heoupin, near Tchenkeou (*Farges*, 984, ex *Franchet*).

Japan.

1. **Tulipa edulis**, *Baker, in Journ. Linn. Soc., Bot.* xiv. (1874) p. 295; *Maxim. in Bull. Soc. Nat. Mosc.* (1879) p. 62.

Orithyia edulis, *Miq. in Ann. Mus. Bot. Lugd.-Bat.* iii. p. 158; *Franch. in Mém. Soc. Sc. Nat. Cherb.* xxiv. (1882) p. 258; *Debeaux, Fl. Shanghai*, p. 64.

Tulipa graminifolia, *Baker, in Journ. Bot.* xiii. (1875) p. 230, et xvi. (1878) p. 138.

SHANTUNG: Chefoo (*Hancock*! *Fauvel* ex *Franchet*); CHEKIANG: Ningpo (*Everard*! *Hancock*, 13!); KIANGSI: Kiukiang (*Bullock*, 244! *Maries*! *Shearer*! *Carles*, 500!); HUPEH: Ichang (*A. Henry*, 3323, 3323 A!). Mus. Brit.; Herb. Kew.

Japan.

2. **Tulipa erythronioides**, *Baker, in Journ. Bot.* xiii. (1875) p. 292.

CHEKIANG: Snowy Valley (*Quekett*!), Tientsi Mountains (*Faber*, 96!). Herb. Kew.

1. **Gagea lutea**, *Ker-Gawl. in Bot. Mag.* t. 1200; *Roem. et Schult. Syst.* vii. pp. 538 & 1703; *Kunth, Enum. Pl.* iv. p. 236; *Baker et S. Moore, in Journ. Linn. Soc., Bot.* xvii. (1874) p. 388; *Franch. et Savat. Enum. Pl. Jap.* ii. p. 61; *Hook. f. Fl. Brit. Ind.* vi. p. 355.

Gagea fascicularis, *Salisb. in Kon. & Sims, Ann. Bot.* ii. (1806) p. 555, ex parte.

Ornithogalum luteum, *Linn. Sp. Pl.* ed. 1, p. 306.

SHINGKING: Fungshan (*Ross*, 30!), Muchi (*Webster*, 141!); COREA: Soul Mountains (*Carles*!). Herb. Kew.

Northern India and Japan.

2. **Gagea pauciflora**, *Turcz. in Bull. Soc. Nat. Mosc.* (1838) p. 102; *Ledeb. Fl. Ross.* iv. p. 143; *Franch. Pl. David.* i. p. 308.

Plecostigma pauciflorum, *Turcz. in Trautv. Pl. Fl. Ross. Imag.* p. 8,

t. 2, et *Fl. Baic.-Dahur.* ii. p. 209; *Maxim. Ind. Fl. Mongol. in Prim. Fl. Amur.* p. 485.

Ornithogalum pauciflorum, *Turcz. in Bull. Soc. Nat. Mosc.* xxvii. (1854) ii. p. 113.

Tulipa ornithogaloides, *Fisch. ex Ledeb. Fl. Ross.* iv. p. 143.

Szechenya lloydioides, *Kanitz, in Bot. Res. Szech. Centr. As. Exped.* p. 60, t. 7. figs. 1–3.

KANSUH: Tangut (*Przewalski*! *Loczy* ex *Kanitz*). Herb. Kew.

Central and Northern Asia.

1. **Lloydia alpina,** *Salisb. in Trans. Hort. Soc.* i. (1812) p. 328.

Lloydia serotina, *Sweet, Hort. Brit.* ed. 2, p. 527; *Reichb. Fl. Germ. Excurs.* p. 102; *Kunth, Enum. Pl.* iv. p. 244; *Baker, in Journ. Linn. Soc., Bot.* xiv. (1874) p. 300; *Hance, in Journ. Bot.* xvii. (1879) p. 15; *Hook. f. Fl. Brit. Ind.* vi. p. 354.

Anthericum serotinum, *Linn. Sp. Pl.* ed. 2, p. 444.

Gagea serotina, *Ker-Gawl. in Journ. Roy. Inst.* i. (1816) p. 180.

NORTH CHINA: Siaowutaishan (*Hancock* in hb. *Hance*!); SZECHUEN: near Tachienlu (*Pratt*, 532!). Mus. Brit.; Herb. Kew.

Widely distributed through the mountainous regions of the North Temperate Zone.

2. **Lloydia Delavayi,** *Franch. in Journ. de Bot.* xii. (1898) p. 193.

YUNNAN: Mount Tsangchan (*Delavay*, 95, ex *Franchet*).

3. **Lloydia filiformis,** *Franch. in Journ. de Bot.* xii. (1898) p. 192.

SZECHUEN: Tongola and Mount Dzeura (ex *Franchet*; collector's name not stated).

4. **Lloydia ixiolirioides,** *Baker, in Hook. Ic. Pl.* t. 2215.

SZECHUEN: Tachienlu (*Pratt*, 533!). Herb. Kew.

5. **Lloydia oxycarpa,** *Franch. in Journ. de Bot.* xii. (1898) p. 192.

YUNNAN: Heechanmen (*Delavay*, 1554, ex *Franchet*), Maeulchan (*Delavay* ex *Franchet*), Likiang (*Delavay* ex *Franchet*), Tsangchan, near Tali (*Delavay*, 93, 294, ex *Franchet*).

6. **Lloydia tibetica**, *Baker, in Hook. Ic. Pl.* t. 2216.

SZECHUEN: near Tachienlu (*Pratt*, 857 !). Herb. Kew.

Var. **lutescens**, *Franch. in Journ. de Bot.* xii. (1898) p. 193.

SZECHUEN: Tchenkeoutin (*Farges*, 429, ex *Franchet*), Tongolo (*Soulié*, 301, 805, ex *Franchet*), between Litang and Batang (*Prince Henri d'Orléans* ex *Franchet*).

Var. **purpurascens**, *Franch. in Journ. de Bot.* xii. (1898) p. 193.

YUNNAN: Likiang (*Delavay*, 25, ex *Franchet*).

7. **Lloydia triflora**, *Baker, in Journ. Linn. Soc., Bot.* xiv. (1874) p. 300, et xvii. (1879) p. 388.

Gagea triflora, *Schultes f. Syst.* vii. p. 551; *Kunth, Enum. Pl.* iv. p. 242; *Ledeb. Fl. Ross.* iv. p. 141; *Maxim. Prim. Fl. Amur.* p. 278.

Ornithogalum triflorum, *Ledeb. in Mém. Acad. Sc. Pétersb.* v. (1812) p. 529; *Ic.* t. 379.

SHINGKING: Kwandien (*Ross*, 115 !), Fungwangchung (*Ross*, 119 !). Herb. Kew.

North-east Asia, Kurile Is., Japan.

1. **Heloniopsis japonica**, *Maxim. in Bull. Acad. St. Pétersb.* xi. (1867) p. 436; *Mél. Biol.* vi. p. 211; *Franch. et Savat. Enum. Pl. Jap.* ii. p. 87; *Baker, in Journ. Linn. Soc., Bot.* xvii. (1879) p. 460.

Scilla japonica, *Thunb. Fl. Jap.* p. 137; *Ic.* dec. iv. t. 4; *Kunth, Enum. Pl.* iv. p. 330.

Sugerokia japonica, *Miq. in Ann. Mus. Bot. Lugd.-Bat.* iii. p. 145.

COREA: near Phyong Kang (*Carles* !), Soul Mountains (*Carles*, 136 !). Herb. Kew.

Japan.

2. **Heloniopsis umbellata**, *Baker, in Journ. Bot.* xii. (1874) p. 278, et *Journ. Linn. Soc., Bot.* xvii. (1879) p. 460.

FORMOSA (*Swinhoe* !).

1. **Ypsilandra thibetica**, *Franch. Pl. David.* ii. p. 132, t. 17; *Diels, in Engl. Bot. Jahrb.* xxix. (1900) p. 240.

SZECHUEN: near Tachienlu (*Pratt*, 766 !). Herb. Kew.

Tibet.

1. **Tofieldia brevistyla,** *Franch. in Journ. de Bot.* xii. (1898) p. 223.

SZECHUEN: Tachienlu (*Soulié*, 833, ex *Franchet*).

2. **Tofieldia divergens,** *Bureau et Franch. in Journ. de Bot.* v. (1891) p. 157.

SZECHUEN: Fouli (*Bonvalot* ex *Bureau et Franchet*).

3. **Tofieldia iridacea,** *Franch. in Journ. de Bot.* xii. (1898) p. 224; *Diels, in Engl. Bot. Jahrb.* xxix. (1900) p. 239.

YUNNAN: Tchenfongchan (*Delavay*, 4906, ex *Franchet*), near Kulongtchang (*Delavay* ex *Franchet*).

4. **Tofieldia nuda,** *Maxim. in Bull. Acad. St. Pétersb.* xvii. (1872) p. 176; *Mél. Biol.* x. p. 416, non *Franch. et Savat. Enum. Pl. Jap.* ii. p. 89; *Somoko Zusetsu*, vii. t. 29; *Diels, in Engl. Bot. Jahrb.* xxix. (1900) p. 239.

Tofieldia thibetica, *Franch. Pl. David.* ii. p. 133.

HUPEH (*A. Henry*, 7627 A!), Hsingshan (*A. Henry*, 6561!); HUNAN (*Hancock*, 40!); SZECHUEN: North Wushan (*A. Henry*, 7627!), Mount Omei (*Faber*, 893!), near Tachienlu (*Pratt*, 9!). Mus. Brit.; Herb. Kew.

Tibet, Japan.

5. **Tofieldia setchuenensis,** *Franch. in Journ. de Bot.* xii. (1898) p. 224; *Diels, in Engl. Bot. Jahrb.* xxix. (1900) p. 239.

SZECHUEN: near Tchenkeoutin (*Farges*, 238, ex *Franchet*).

6. **Tofieldia yunnanensis,** *Franch. in Journ. de Bot.* xii. (1898) p. 225.

YUNNAN: Tsangchan (*Delavay*, 79, ex *Franchet*).

1. **Tricyrtis formosana,** *Baker, in Journ. Linn. Soc., Bot.* xvii. (1879) p. 465.

FORMOSA (*Oldham*, 570! *Hancock*, 11! *A. Henry*, 1267, 1393*a*!). Mus. Brit.; Herb. Kew.

2. **Tricyrtis latifolia,** *Maxim. in Bull. Acad. St. Pétersb.* xi. (1867) p. 435; *Mél. Biol.* vi. p. 208; *Franch. et Savat. Enum. Pl. Jap.* ii. p. 74; *Baker, in Journ. Linn. Soc., Bot.* xvii. p. 464.

FORMOSA: Bankinsing Mountains (*A. Henry*, 1485!); HUPEH:

Ichang (*A. Henry*, 953 !), Chienshih (*A. Henry*, 5871 !); Patung (*A. Henry*, 4690 !), Nanto (*A. Henry*. 4619 *a* !). Mus. Brit.; Herb. Kew.

Japan.

3. **Tricyrtis macropoda**, *Miq. in Versl. en Med. Kon. Akad. Wetensch.* ii. (1868) p. 86, *et in Ann. Mus. Bot. Lugd.-Bat.* iii. p. 155; *Gartenfl.* t. 613; *Franch. et Savat. Enum. Pl. Jap.* ii. p. 74; *Baker, in Journ. Linn. Soc., Bot.* xvii. (1879) p. 464; *Hemsl. in Journ. Bot.* xiv. (1876) p. 210.

KIANGSI: Kiukiang (*Forbes* !). Mus. Brit.

Japan.

4. **Tricyrtis pilosa**, *Wall. Tent. Fl. Nep.* p. 62; *Kunth, Enum. Pl.* iv. p. 279; *Bot. Mag.* t. 4955; *Baker, in Journ. Linn. Soc., Bot.* xvii. (1879) p. 464; *Franch. in Journ. de Bot.* iv. (1890) p. 319 (*sphalmate* T. villosa); *Hook. f. Fl. Brit. Ind.* vi. p. 359.

Tricyrtis elegans, *Wall. Tent. Fl. Nep.* t. 46.

CHIHLI: Tongkeou (*Bodinier* ex *Franchet*); CHEKIANG: Ningpo (*Faber*, 357 ! *Hancock*, 37 !); KIANGSI: Kiukiang (*Shearer* ! *Forbes* ex *Hemsley*), Lushan Mountains (*Bullock*, 86 !); HUPEH: Patung (*A. Henry*, 4780 !); SZECHUEN: Mount Omei (*Faber*, 222 !). Herb. Kew.

Temperate Himalayas.

1. **Disporum calcaratum**, *D. Don, in Proc. Linn. Soc.* i. (1839) p. 45, *et in Trans. Linn. Soc.* xviii. (1841) p. 516; *Kunth, Enum. Pl.* iv. p. 207; *Baker, in Journ. Linn. Soc., Bot.* xiv. (1874) p. 588; *Hook. f. Fl. Brit. Ind.* vi. p. 359.

Disporum Wallichii, *D. Don, in Proc. Linn. Soc.* i. (1839) p. 45, *et in Trans. Linn. Soc.* xviii. (1841) p. 516; *Kunth, Enum. Pl.* iv. p. 207.

Uvularia Wallichii, *Wall. Cat.* n. 5087.

YUNNAN: Mengtze (*Hancock*, 46 !). Herb. Kew.

Temperate Himalayas, Khasia Hills, Birma.

2. **Disporum Leschenaultianum**, *D. Don* ?, *Hance, in Journ. Bot.* xxv. (1887) p. 13.

KWANGTUNG: Lofaushan (*B. C. Henry*).

3. **Disporum pullum**, *Salisb. in Trans. Hort. Soc.* i. (1812) p. 331; *D. Don, in Trans. Linn. Soc.* xviii. (1841) p. 521; *Kunth, Enum. Pl.* iv. p. 208; *Baker, in Journ. Linn. Soc., Bot.* xiv.

(1875) p. 589; *Maxim. in Bull. Acad. St. Pétersb.* xxix. (1884) p. 216; *Mél. Biol.* xi. p. 860; *Franch. et Savat. Enum. Pl. Jap.* ii. p. 52; *Hook. f. Fl. Brit. Ind.* vi. p. 360.

Uvularia chinensis, *Ker-Gawl. in Bot. Mag.* t. 916.

Streptopus chinensis, *Sm. in Rees, Cycl.* xxxvii. sub *Uvularia*, n. 4.

FORMOSA: Kelung (*Ford*!); HUPEH (*A. Henry*, 5459, 5545!), Ichang (*A. Henry*, 577, 919, 1179, 2960, 2960 A, 3321, 3782! *Watters* in hb. *Hance*, 21206!); KWANGTUNG: Whampoa (*Hance*, 19079! cult.). Mus. Brit.; Herb. Kew.

Japan, Temperate Himalayas, Java, Sumatra.

4. **Disporum sessile,** *D. Don, Prodr. Fl. Nepal.* p. 50; *Kunth, Enum. Pl.* iv. p. 208; *Maxim. in Bull. Acad. St. Pétersb.* xxix. (1884) p. 216; *Mél. Biol.* xi. p. 860; *A. Gray, in Rep. Perry's Exped.* p. 321; *Baker, in Journ. Linn. Soc., Bot.* xiv. (1875) p. 589; *Franch. et Savat. Enum. Pl. Jap.* ii. p. 51; *Hance, in Journ. Bot.* xxi. (1883) p. 358, et xxv. (1887) p. 13; *Franch. in Bull. Soc. Bot. France,* xlvi. (1899) p. 214.

Uvularia sessilis, *Thunb. Fl. Jap.* p. 135, excl. syn.

CHEKIANG: Meichi (*Carles*, 212! *Maries*!); KIANGSI: Kiukiang (*Faber*, 896!); FOKIEN: Mountains of Kuatun (*De la Touche* ex *Franchet*); HUPEH: Nanto (*A. Henry*, 7635!), Patung (*A. Henry*, 247, 1474!); KWANGTUNG: Taimoshan (*Westland*!). Mus. Brit.; Herb. Kew.

Japan.

5. **Disporum smilacinum,** *A. Gray, in Proc. Amer. Acad.* (1858) p. 321, *et Bot. Jap.* p. 414; *Miq. Ann. Mus. Bot. Lugd.-Bat.* iii. p. 147; *Baker, in Journ. Linn. Soc., Bot.* xiv. (1875) p. 590 excl. syn.; *Baker et S. Moore, in Journ. Linn. Soc., Bot.* xvii. (1879) p. 387; *Maxim. in Engl. Bot. Jahrb.* vi. p. 53; *Franch. et Savat. Enum. Pl. Jap.* ii. p. 52.

SHINGKING: Chienshan (*Ross*, 525!), Toonghwahien (*Ross*, 26!), Moukden (*James*! *Webster*, 18!); COREA: Chemulpo (*Carles*, 66!); LUCHU ARCHIPELAGO (*Döderlein* ex *Maximowicz*). Mus. Brit.; Herb. Kew.

Japan, Eastern Siberia.

Var. **viridescens,** *Maxim. in Bull. Acad. St. Pétersb.* xxix. (1884) p. 216; *Mél. Biol.* xi. p. 859; *Palibin, in Act. Hort. Petrop.* xix. (1901) p. 114.

Uvularia? viridescens, *Maxim. Prim. Fl. Amur.* p. 273.

Prosartes viridescens, *Regel, Flor. Ussur.* p. 162, n. 493.

CHIHLI: Mountains west of Peking (*Tatarinow* ex *Maximowicz*). COREA: Kyong kwi, Soul (*Gortsche* ex *Palibin*), Huttschaimeo, Pauckhan, Tap Tong, and Mt. Yisan (*Sontag* ex *Palibin*).

Manschuria.

6. **Disporum uniflorum**, *Baker, in Journ. Bot.* xiii. (1875) p. 230; *Maxim. in Bull. Acad. St. Pétersb.* xxix. (1884) p. 216; *Mél. Biol.* xi. p. 860.

KIANGSI: Kiukiang (*Shearer*!). Herb. Kew.

1. **Clintonia udensis**, *Trautv. et Mey. Fl. Ochot.* p. 92; *Maxim. Prim. Fl. Amur.* p. 278; *Franch. et Savat. Enum. Pl. Jap.* ii. p. 50; *Maxim. in Bull. Soc. Nat. Mosc.* (1879) p. 62; *Franch. Pl. David.* ii. p. 309; *Baker, in Journ. Linn. Soc., Bot.* xiv. (1875) p. 585.

CHIHLI: Pohuashan (*Bretschneider* ex *Maximowicz*); SHINGKING: Changpeishan (*James*!); HUPEH: South Patung (*A. Henry*, 6085!), Fang (*A. Henry*, 6085 *a*!), Kuei (*A. Henry*, 6085 *b*!); SZECHUEN (*A. Henry*, 8832! *Potanin*!), Mount Omei (*Faber*, 891!), Tachienlu (*Pratt*, 319, 685!). Mus. Brit.; Herb. Kew.

Japan, Eastern Siberia.

1. **Trillium Tschonoskii**, *Maxim. in Bull. Acad. St. Pétersb.* xxix. (1884) p. 218; *Mél. Biol.* xi. p. 836.

SHINGKING: Moukden (*James*!); HUPEH: (*A. Henry*, 6067, 6067 B!); SZECHUEN: near Tachienlu (*Pratt*, 840!), Mount Omei (*Faber*, 980!). Mus. Brit.; Herb. Kew.

Japan.

This is very near to *T. erectum*, Linn., of which it may possibly be a variety.

1. **Paris chinensis**, *Franch. Pl. David.* ii. p. 135, *et in Mém. Soc. Philom. Paris, Cent.* (1888) p. 287.

HUPEH: Changyang (*A. Henry*, 5230!); KWEICHAU (*Perny* ex *Franchet*). Herb. Kew.

Tibet.

2. **Paris Delavayi**, *Franch. in Journ. de Bot.* xii. (1898) p. 190.

YUNNAN: Longki (*Delavay* ex *Franchet*).

3. **Paris Fargesii**, *Franch. in Journ. de Bot.* xii. (1898) p. 190.
SZECHUEN: Tchenkeoutin (*Farges* ex *Franchet*).

4. **Paris incompleta**, *Bieb. Fl. Taur.-Cauc.* i. p. 306, *et* iii. p. 287; *Bieb. Cent. Pl. Rar. Ross.* t. 74; *Kunth, Enum. Pl.* v. p. 119; *Ledeb. Fl. Ross.* iv. p. 121; *Franch. in Mém. Soc. Philom. Paris, Cent.* (1888) p. 283.

COREA (*Wykeham Perry*, 43!). Herb. Kew.

Caucasus.

5. **Paris petiolata**, *Baker*, MSS. in Herb. Kew.

Herba erecta. *Folia* circa 7, verticillata, herbacea, ovata, breviter acuminata, basi subcordata, sæpe inæqualia, 3 poll. longa, 2 poll. lata; petiolus 1–1½ poll. longus. *Pedunculus* 7 poll. longus. *Perianthii* segmenta exteriora 5, ovato-elliptica breviter acuminata, basi brevissime et late unguiculata, 1¼ poll. longa, 9 lin. lata; interiora exterioribus multo breviora, anguste oblanceolata, 10 lin. longa, 2 lin. lata. *Stamina* 10, 6 lin. longa; connectivum supra antheram longe productum. *Ovarium* 5-angulatum; stigmata 5, crassiuscula, recurva.

SZECHUEN: near Tachienlu (*Pratt*, 572*!). Herb. Kew.

Var. **membranacea**, *Wright* (an sp. distincta?). A typo differt foliis majoribus basi cordatis, 4–6 poll. longis, 2–4 poll. latis, perianthii segmentis exterioribus angustioribus, interioribus linearibus, staminum connectivo apice in globulo (non mucrone) producto.

HUPEH: South Patung (*A. Henry*, 5385, 5385 A!). Herb. Kew.

6. **Paris polyphylla**, *Sm. in Rees's Cyclop.* xxvi. n. 2; *D. Don, Prodr. Fl. Nepal.* p. 49; *Kunth, Enum. Pl.* v. p. 118; *Wall. Pl. As. Rar.* t. 126; *Hook. f. Illust. Himal. Pl.* t. 24; *Hook. f. Fl. Brit. Ind.* vi. p. 362; *S. Moore, in Journ. Bot.* xvi. (1878) p. 138, *et* xxi. (1883) p. 358; *Franch. in Mém. Soc. Philom. Paris, Cent.* (1888) p. 287, *et Bull. Soc. Bot. France*, xlvi. (1899) p. 214.

SHINGKING: Laoling (*Webster*, 10*a*!); CHEKIANG: Ningpo (*Everard*!); KIANGSI: Kiukiang (*Shearer*! *Maries*! *Faber*, 305!), Lushan Mountains (*Styan*!); FOKIEN: Mountains of Kuatun (*De la Touche* ex *Franchet*); HUPEH: Patung (*A. Henry*, 206, 2432, 2831, 4083, 4088!); SZECHUEN: South Wushan (*A. Henry*, 5387 *a*), Mount Omei (*Faber*, 306!), near Tachienlu (*Pratt*, 56! *Soulié*, 185, 213!); KWEICHAU (*Perny* ex *Franchet*);

YUNNAN (*Delavay* ex *Franchet*); KWANGTUNG: Lofaushan (*Faber* in hb. *Hance*, 22122 !). Mus. Brit.; Herb. Kew.
Himalaya.

Var. **brachystemon,** *Franch. in Journ. de Bot.* xii. (1898) p. 191.
SZECHUEN: Tchenkeoutin (*Farges* ex *Franchet*).

Var. **platypetala,** *Franch. in Journ. de Bot.* xii. (1898) p. 191.
SZECHUEN: Tchenkeoutin (*Farges*, 573, ex *Franchet*).

7. **Paris quadrifolia,** *Linn. Sp. Pl.* ed. 1, p. 367; *Kunth, Enum. Pl.* v. p. 116; *Franch. in Mém. Soc. Philom. Paris, Cent.* (1888) p. 278.
SZECHUEN: Mount Omei (*Faber*, 307 !). Herb. Kew.

Var. **setchuenensis,** *Franch. in Journ. de Bot.* xii. (1898) p. 191.
SZECHUEN: Tchenkeoutin (*Farges*, 414, ex *Franchet*).
Europe, Northern Asia.

Var. **obovata,** *Regel et Til. Fl. Ajan.* p. 121; *Maxim. Prim. Fl. Amur.* p. 272; *Regel, Fl. Ussur.* p. 162; *Franch. et Savat. Enum. Pl. Jap.* ii. p. 56; *Franch. Pl. David.* ii. p. 134; *Franch. in Mém. Soc. Philom. Paris, Cent.* (1888) p. 282.
Paris obovata, *Ledeb. Ic. Pl. Ross.* i. t. 16; *Kunth, Enum. Pl.* v. p. 117.
Paris hexaphylla, *Cham. in Linnæa*, vi. (1831) p. 586; *Ledeb. Fl. Ross.* iv. p. 120; *Kunth, Enum. Pl.* v. p. 117; *Franch. Pl. David.* i. p. 309.
SHINGKING: Tungcheshien (*James* !), near Moukden (*James* !), Chienshan (*Ross*, 448 !), Ngai River (*Ross*, 226 !). Herb. Kew.
Northern Asia, Japan.

8. **Paris yunnanensis,** *Franch. in Mém. Soc. Philom. Paris, Cent.* (1888) p. 290.
YUNNAN: Chetchotze (*Delavay* ex *Franchet*).
Said to be allied to *P. polyphylla*, Sm., but to differ in the leaves being almost coriaceous and the anthers elongated.

[*Melanthium cochinchinese,* Lour. Fl. Cochinch. p. 216, is a doubtful plant. Hance suggests that it may be *Asparagus lucidus*, Lindl., with which the description agrees, except that the fruit is said to be capsular. *Vide* Benth. Fl. Hongk. p. 371.]

1. **Veratrum album,** *Linn. Sp. Pl.* p. 1044; *Maxim. Prim. Fl. Amur.* p. 289; *Red. Lil.* t. 447; *Kunth, Enum. Pl.* iv. p. 186; *Baker, in Journ. Linn. Soc., Bot.* xvii. (1879) p. 470.

CHIHLI: Peking (*Tatarinow* ex *Maximowicz*); HUPEH: South Patung (*A. Henry*, 6060!); SZECHUEN: Mount Omei (*Faber*, 888!). Mus. Brit.; Herb. Kew.

Mountains of Europe and Northern Asia.

Var. **viride,** *Baker, in Journ. Linn. Soc., Bot.* xvii. (1879) p. 471.

Veratrum viride, *Ait. Hort. Kew.* iii. p. 422; *Kunth, Enum. Pl.* iv. p. 188.

Helonias viridis, *Ker-Gawl. in Bot. Mag.* t. 1096.

Melanthium viride, *Thunb. Diss. Melanth.* pp. 3 & 6.

SHINGKING: between Moukden and Kirin (*James*). Herb. Kew.

North America.

2. **Veratrum bracteatum,** *Batalin, in Act. Hort. Petrop.* xiii. (1893) i. p. 106.

KANSUH: between Morping and Wuping (*Potanin* ex *Batalin*), Mount Tshagola (*Potanin* ex *Batalin*).

3. **Veratrum Maackii,** *Regel, Fl. Ussur.* p. 169, t. xi. figg. 8–14; *Baker, in Journ. Linn. Soc., Bot.* xvii. (1879) p. 473.

Zygadenus japonicus, *Miq. in Ann. Mus. Bot. Lugd.-Bat.* iii. p. 146.

SHINGKING: between Moukden and Kirin (*James*!); YUNNAN: Mengtze (*Hancock*, 81!); COREA: Chemulpo (*Carles*, 86!). Herb. Kew.

Northern Asia, Japan.

An imperfect specimen at Kew collected in Ichang may belong to this species.

4. **Veratrum Maximowiczii,** *Baker, in Journ. Linn. Soc., Bot.* xvii. (1879) p. 472; *Franch. Pl. David.* i. p. 309.

Veratrum parviflorum, *Franch. et Savat. Enum. Pl. Jap.* ii. p. 91, non *Michx.*

KIANGSI: Kiukiang (*David*, 842, ex *Franchet*); HUPEH: Nanto (*A. Henry*, 4610 A!), Ichang (*A. Henry*, 4610!). Mus. Brit.; Herb. Kew.

Japan.

5. **Veratrum nigrum,** *Linn. Sp. Pl.* ed. 1, p. 1044; *Red. Lil.* t. 416; *Bot. Mag.* t. 963; *Kunth, Enum. Pl.* iv. p. 186; *Franch.*

et Savat. Enum. Pl. Jap. ii. p. 90; *Maxim. Prim. Fl. Amur.* p. 289; *Baker, in Journ. Linn. Soc., Bot.* xvii. (1879) p. 472; *Franch. Pl. David.* i. p. 310.

Melanthium nigrum, *Thunb. Diss. Melanth.* pp. 4 & 8.

CHIHLI: Jehol (*David*, 2037, ex *Franchet*); SHINGKING: Tanghoko (*James*!); HUPEH: Hsingshan and Fang (*A. Henry*, 6082 *a*!), South Patung (*A. Henry*, 6082 *b*!); SZECHUEN: Tachienlu (*Pratt*, 718!), Tongolo (*Soulié*, 931!). Mus. Brit.; Herb. Kew.

Central Europe, Northern Asia, Japan.

Var. **japonicum**, *Baker, in Journ. Linn. Soc., Bot.* xvii. (1879) p. 472.

FORMOSA: Tamsui (*Hancock*, 30!); SZECHUEN: Mount Omei (*Faber*, 937, 960!); KWANGTUNG: Lofaushan (*Ford*!). Herb. Kew.

Japan.

This variety connects *V. nigrum*, Linn., with *V. Mackii*, Regel.

1. **Zygadenus sibiricus**, *A. Gray, in Ann. Lyc. New York*, iv. (1837) p. 112.

Melanthium sibiricum, *Linn. Amœn. Acad.* ii. p. 348, t. 4, n. 11; *Linn. Sp. Pl.* ed. 1, p. 339.

Anthericum? Gmelinianum, *Schultes f. Syst.* vii. p. 481.

Leimanthium? sibiricum, *Schultes f. Syst.* vii. p. 1551.

Anticlea sibirica, *Kunth, Enum. Pl.* iv. p. 191; *Ledeb. Fl. Ross.* iv. p. 207; *Baker, in Journ. Linn. Soc., Bot.* xvii. (1879) p. 483.

HUPEH: Fang (*A. Henry*, 6889!); SZECHUEN: one specimen from North Wushan (ex *A. Henry*). Herb. Kew.

Siberia.

144. PONTEDERIACEÆ.

(By N. E. BROWN, A.L.S.)

1. **Monochoria hastæfolia**, *Presl, Reliq. Haenk.* i. p. 128; *Kunth, Enum. Pl.* iv. p. 133; *Miquel, Fl. Ind. Bat.* iii. p. 548; *Thwaites, Enum. Pl. Zeyl.* p. 321; *Hook. f. Fl. Brit. Ind.* vi. p. 362.

Monochoria hastata, *Solms-Laubach, in DC. Monogr. Phan.* iv. p. 523.

Monochoria dilatata, *Kunth, Enum. Pl.* iv. p. 134.

Monochoria sagittata, *Kunth, Enum. Pl.* iv. p. 134.

Pontederia hastata, *Linn. Sp. Pl.* p. 288; *Linn. f. Suppl.* p. 192; *Loureiro, Fl. Cochinch.* p. 199; *Roxburgh, Pl. Corom.* ii. p. 6, t. 111.

Pontederia dilatata, *Buchanan, in Symes, Embassy to Ava*, p. 475 cum fig., et ed. 2, iii. p. 309, t. 23; *Andr. Bot. Rep.* vii. t. 490.

Pontederia sagittata, *Roxb. Fl. Ind.* ii. p. 124.

KWANGTUNG: Lofaushan (*Ford*, 331!), opposite Hongkong (*Ford*, 161!), Fatshan (*Wenyon*!), Whampoa (*Hance*, 1372, ex *Solms-Laubach*); HAINAN (*A. Henry*, 8238! a form with more racemose flowers). Herb. Kew.

Cambodia, India, Malay Archipelago, New Guinea.

2. **Monochoria Korsakowii**, *Regel & Maack, in Mém. Acad. Pétersb.* iv. 1861, p. 155; *Regel, Opuit Florui Usuriuskoi*, p. 170, t. 12. figs. 1–7; *Gartenfl.* (1862) p. 313, t. 374; *Hance, in Journ. Linn. Soc., Bot.* xiii. (1872) p. 88; *Franch. Pl. David.* i. p. 310.

Monochoria vaginalis, var. Korsakowii, *Solms-Laubach, in DC. Monogr. Phan.* iv. p. 525; *Palibin, in Act. Hort. Petrop.* xix. (1901) p. 115.

CHIHLI: Peking (*Bretschneider*, 768!; *Williams* in herb. *Hance*, 13463!, *David*!); SHINGKING (*Ross*, 40! *Webster*, 262!); SHANTUNG (*Faber*, 92!); COREA: Chemulpo (*Carles*!), Soul (*Gottsche*, *Kalinowsky*). Mus. Brit.; Herb. Kew.

Mandshuria, Japan.

3. **Monochoria ovata**, *Kunth, Enum. Pl.* iv. p. 665.

Pontederia ovata, *Hook. & Arn. Bot. Beechey's Voy.* p. 218.

KWANGTUNG: Canton (*Millett*).

I have seen no specimen of this imperfectly described species, which may, perhaps, be the same as *M. Korsakowii*, Regel & Maack.

4. **Monochoria vaginalis**, *Presl, Reliq. Haenk.* i. p. 128; *Kunth, Enum. Pl.* iv. p. 134; *Miq. Fl. Ind. Bat.* iii. p. 548; *Hook. f. Fl. Brit. Ind.* vi. p. 363; *Benth. Fl. Hongk.* p. 374; *Solms-Laubach, in DC. Monogr. Phan.* iv. p. 524.

Pontederia vaginalis, *Burm. f. Fl. Ind.* p. 80; *Linn. Mant.* p. 222; *Roxb. Fl. Ind.* ii. p. 121; *et Pl. Coromand.* ii. p. 6, t. 110.

CHIHLI (*Ross*, 288!); KIANGSI: Kiukiang (*Shearer*!); FORMOSA (*Wilford*, 150! *Oldham*, 644! *Swinhoe*, 5! *Playfair*, 170!); HUPEH: Ichang (*A. Henry*, 129! 2357!); SZECHUEN: Mount Omei (*Faber*, 243)!; HONGKONG: Happy Valley (*Wilford*, 150!); HAINAN (*A. Henry*, 8368! 8780!). Mus. Brit.; Herb. Kew.

Japan, India, and Malay Archipelago.

Var. **plantaginea,** *Solms-Laubach, in DC. Monogr. Phan.* iv. p. 524.

Monochoria plantaginea, *Kunth, Enum. Pl.* iv. p. 135; *Benth. Fl. Hongk.* p. 375.

Monochoria linearis, *Miq. Fl. Ind. Bat.* iii. p. 549.

Monochoria Junghuhniana, *Hassk., in Flora,* xxxv. (1852) p. 115.

Pontederia plantaginea, *Roxb. Fl. Ind.* ii. p. 123.

Pontederia linearis, *Hassk. Cat. Hort. Bogor.* p. 28, *et in Flora,* xxv. (1842) ii. *Beibl.* p. 4.

FOKIEN: Amoy (*Hance,* 1426!); FORMOSA: Takow (*Henry,* 718!), South Cape (*Henry,* 718 A!); HONGKONG (*Wright,* 540!); HAINAN (*A. Henry,* 8386!). Mus. Brit.; Herb. Kew.

Japan, Tonquin, India, and Malay Archipelago.

145. PHILYDRACEÆ.

(By N. E. BROWN, A.L.S.)

1. **Philydrum lanuginosum,** *Banks, in Gaertn. Fruct.* i. p. 62, t. 16. fig. 10; *Bot. Mag.* t. 783; *Kunth, Enum. Pl.* iii. p. 380; *Griffith, Notul.* iii. p. 231, Icon. t. 269; *Benth. Fl. Hongk.* p. 380; *Hance, in Journ. Bot.* ix. (1871) p. 202; *Caruel, in DC. Monogr. Phan.* iii. p. 3; *Hook. f. Fl. Brit. Ind.* vi. p. 363.

Garciana cochinchinensis, *Lour. Fl. Cochinch.* p. 15.

KWANGTUNG: Pakhoi (*Playfair,* 199!), Canton (*Loureiro*); HONGKONG, Happy Valley and Saywan (*Wilford,* 315! *Wright,* 539! *Champion,* 290! *Seemann,* and *Leclancher* ex *Caruel*). Mus. Brit.; Herb. Kew.

Cochinchina, Tonquin, Malay Peninsula and Archipelago, Australia.

146. XYRIDEÆ.

(By N. E. BROWN, A.L.S.)

1. **Xyris bancana,** *Miq. Fl. Ind. Bat., Suppl.* i. p. 608; *Nilsson, in Kongl. Svensk. Vet.-Akad. Handl.* xxiv. no. 14 (1892), p. 37; *Hook. f. Fl. Brit. Ind.* vi. p. 366.

Xyris schœnoides, *Benth. Fl. Hongk.* p. 379, non *Martius.*

HONGKONG (*Wright,* 548!). Herb. Kew.

The material of this plant at Kew is too meagre to permit of

an accurate comparison by dissection, but it is either *X. bancana* or a new species, and is perfectly distinct from *X. schœnoides*, Mart., with which Bentham identified it.

2. **Xyris pauciflora**, *Willd. Phytog.* p. 2, t. 1. fig. 1 ; *et Sp. Pl.* i. p. 255 ; *Wall. Pl. Asiat. Rar.* iii. p. 29 ; *Kunth, Enum. Pl.* iv. p. 17 ; *Benth. Fl. Hongk.* p. 379 ; *Nilsson, in Kongl. Svensk. Vet.-Akad. Handl.* xxiv. no. 14 (1892), p. 36 ; *Hook. f. Fl. Brit. Ind.* vi. p. 365.

KWANGTUNG : Pakhoi (*Playfair*, 2 !) ; HONGKONG : Happy Valley (*Wilford*, 57 ! *Wright*, 547 !). Herb. Kew.

Tonquin, India.

147. COMMELINACEÆ.

(By N. E. BROWN, A.L.S.)

1. **Aneilema angustifolium**, *N. E. Brown*, n. sp.

Herba A. sinico simillima sed minor, 6–12 poll. alta. *Caules* floriferi erecti, graciles, glabri. *Folia* radicalia 4–9 poll. longa, 1½–3 lin. lata, linearia, acuta, glabra ; caulina simillima sed minora, 1–3 poll. longa, vaginis ciliatis. *Paniculæ* terminales, pauciramosæ, glabræ ; rami 1–3 poll. longi, parte florifera cicatricibus approximatis notata. *Bracteæ* 1½ lin. longæ, ovatæ, acutæ vel subacutæ, caducæ. *Pedicelli* 1½ lin. longi. *Sepala* 1¾–2 lin. longa, ovata, subobtusa. *Petala* circa 2 lin. longa, cærulea. *Stamina* 2 fertilia, 3 sterilia, filamentis barbatis. *Capsula* trigona, 1¾ lin. longa, obtusa, apiculata. *Semina* foveolato-rugosa, minutissime furfuracea.

Aneilema nudiflorum, *R. Br.*, var. rigidior, *Benth. Fl. Hongk.* p. 377.

FORMOSA : Takow (*A. Henry*, 1897 !), and without precise locality (*Oldham*, 576 partly !) ; SZECHUEN : above Chungking (*Faber*, 106 !) ; KWANGTUNG : Lantao Island (*Ford*, 398 !), Pakhoi (*Playfair*, 135 !, 225 !) ; HONGKONG (*Wright*, 546 !). Mus. Brit. ; Herb. Kew.

2. **Aneilema divergens**, *C. B. Clarke, Commel. & Cyrt. Beng.* t. 16 ; *et in DC. Monogr. Phan.* iii. p. 203 ; *Hook. f. Fl. Brit. Ind.* vi. p. 376.

Aneilema herbaceum, *Wall.*, var. divergens, *C. B. Clarke, in Journ. Linn. Soc., Bot.* xi. (1870) p. 448.

FORMOSA: Bankinsing Mountains (*A. Henry*, 899!); YUNNAN: Hotha (*Anderson*!). Herb. Kew.

India.

3. **Aneilema formosanum,** *N. E. Brown*, n. sp.

Herba 12–15 poll. alta. *Radices* fibrosæ, crassæ. *Folia* radicalia 8–11 poll. longa, ½–1 poll. lata, ensiformia, acuminata, basi angustata, utrinque parce puberula. *Scapi* erecti, 7–10 poll. longi, aphylli, vaginis duabus 5–8 lin. longis instructi, puberuli, fasciculos 1–4 gerentes, fasciculis e ramulis 2–3 erectis, ¼–2 poll. longis puberulis compositis. *Bracteæ* 3–6 lin. longæ et bracteolæ 2–3 lin. longæ, ovatæ, acutæ, amplexicaules, submembranaceæ. *Flores?* *Capsula* trigono-oblonga, obtusa, apiculata. *Semina* obscure et minute tuberculata.

FORMOSA: Bankinsing (*A. Henry*, 872!). Herb. Kew.

Allied to *A. scapiflorum*, Wight.

4. **Aneilema japonicum,** *Maxim. in Engl. Bot. Jahrb.* vi. (1885) p. 53, vix *Kunth.*

LUCHU ARCHIPELAGO: Amami-O-sima (*Döderlein*).

This can scarcely be the *Commelina japonica*, Thunb., in Trans. Linn. Soc. ii. (1794) p. 332, with which Maximowicz identified it, since the description differs in several important particulars. Mr. C. B. Clarke appears to have seen no specimen that he could identify with Thunberg's description. (See DC. Monogr. Phan. iii. p. 231.)

5. **Aneilema Keisak,** *Hassk. Commel. Ind.* p. 32; *C. B. Clarke, in DC. Monogr. Phan.* iii. p. 209; *Franch. Pl. David.* i. p. 310.

Aneilema oliganthum, *Franch. et Savat. Enum. Fl. Jap.* ii. pp. 94 et 532.

SHANTUNG: at the foot of Chefoo Mountains (*Faber*, 280!); KIANGSU: Hills near Shanghai (*Carles*, 420!); KIANGSI: Kiukiang (*Shearer*! *David*, 922); FOKIEN: Amoy (*Swinhoe*!); HUPEH: Ichang (*A. Henry*, 128, 2757!). Mus. Brit.; Herb. Kew.

6. **Aneilema Loureirii,** *Hance, in Journ. Bot.* vi. (1868) p. 250; *C. B. Clarke, in DC. Monogr. Phan.* iii. p. 201; *Hook. f. Fl. Brit. Ind.* vi. p. 375.

Aneilema spectabile, *Kurz, in Journ. As. Soc. Beng.* xl. (1871) pt. 2, p. 77; *C. B. Clarke, Commel. & Cyrt. Beng.* t. 20.

Commelina tuberosa, *Lour. Fl. Cochinch.* p. 40.

KWANGTUNG: Foot of White Cloud Hill or Pakwan Mountain, Canton (*Sampson*, 252! hb. *Hance*, 13842!). Mus. Brit.; Herb. Kew.

Burma, Siam.

7. **Aneilema medicum,** *R. Br. Prodr.* p. 271 in adn.; *C. B. Clarke, in DC. Monogr. Phan.* iii. p. 202.

Commelina medica, *Lour. Fl. Cochinch.* p. 40.

CHINA: without locality (*Loureiro*).

Cochinchina, *ex Loureiro.*

Bretschneider, in his 'Early European Researches into the Flora of China,' p. 179, states that the Chinese name quoted by Loureiro for this plant, "in China as well as in Japan is applied to *Ophiopogon japonicus*, Ker." But Loureiro's description of the flowers and fruit in no way agrees with those of *Ophiopogon.*

8. **Aneilema nudiflorum,** *R. Br. Prodr.* p. 271 in adn.; *Benth. Fl. Hongk.* p. 376; *C. B. Clarke, Commel. & Cyrt. Beng.* t. 21; *et in DC. Monogr. Phan.* iii. p. 210, excl. var. γ; *Hook. f. Fl. Brit. Ind.* vi. p. 378.

Commelina nudiflora, *Linn. Mant.* ii. p. 177 (nec *Sp. Pl.*); *Reichenb. Icon. Bot. Exot.* cent. 2, p. 15, t. 136.

FOKIEN: Amoy (*Swinhoe*!); FORMOSA (*Oldham*, 576 partly! *Wilford*, 551! *A. Henry*, 882!); HUPEH: Ichang (*A. Henry*, 2252!); SZECHUEN: Mount Omei, lower regions (*Faber*, 245!); KWANGTUNG: Lofaushan (*Ford*, 138!), Canton (*Sampson*, 253! *Lamont*!); HONGKONG (*Wilford*, 49! *Hance*, 256! *Lamont*!); HAINAN (*A. Henry*, 8334!); LUCHU ARCHIPELAGO (*Wright*, 353!). Mus. Brit.; Herb. Kew.

India, Siam, Malay Archipelago.

9. **Aneilema paucifolium,** *N. E. Brown*, n. sp.

Herba 6–8 poll. alta, basi ramosa. *Radices* fibrosæ, crassæ, tomentosæ. *Caules* erecti vel basi subdecumbentes, simplices vel subsimplices, glabri, basi unifoliati rarius bifoliati, florum fasciculos 3–4 racemosim dispositos gerentes. *Folia* ½–2¼ poll. longa, 1½–2½ lin. lata, linearia, acuta, canaliculata, arcuato-recurva. *Bracteæ* vaginiformes, ½ poll. longæ, erectæ, submembranaceæ. *Fasciculi* 4–8-flori. *Pedicelli* erecti, 5–8 lin. longi, medio bracteolati, supra bracteolas articulati et pubescentes, infra articulos glabri. *Bracteolæ* vaginiformes, membranaceæ,

parvæ. *Sepala* 2½ lin. longa, 1 lin. lata, oblonga vel elliptico-oblonga, subobtusa, apice cærulea, parce pubescentia. *Petala* obovata, cærulea. *Stamina* 2 fertilia, 4 sterilia, filamentis barbatis. *Capsula* immatura trigono-oblonga, loculis 3–4-spermis, seminibus uniseriatis.

KWANGTUNG: Pakhoi (*Playfair*, 131 !). Herb. Kew.

A very distinct and remarkable species, belonging to the same group as *A. Keisak*, Hassk.; but the stems appear usually to bear only one developed leaf at their base, the others being reduced to submembranous sheaths, which are erect and rather closely embrace the stem and fascicles of pedicels.

10. **Aneilema scapiflorum,** *Wight,* var. **latifolium,** *N. E. Brown,* n. var.; folia quam ea typi latiora et minus acuminata, 4–7 poll. longa, ¾–1¼ poll. lata.

HAINAN: Lingmen (*A. Henry* !). Herb. Kew.

The type extends from the Temperate and Tropical Himalayas southwards to Ceylon and Tenasserim.

11. **Aneilema sinicum,** *Lindl. Bot. Reg.* t. 659; *C. B. Clarke, in DC. Monogr. Phan.* iii. p. 212; *Hook. f. Fl. Brit. Ind.* vi. p. 379.

Aneilema secunda, *Wight, Ic. Pl. Ind. Or.* vi. p. 31, t. 2075.

Commelina sinica, *Roem. et Schult. Syst.* i., *Mant.* i., *Additament.* i., p. 376.

KWANGTUNG: West River (*Ford* !), at the foot of Pakwan Mountains (*Sampson* in hb. *Hance*, 14736 !); Lantao Island (*Ford*, 402 !). Mus. Brit.; Herb. Kew.

India, Malay Archipelago, Tropical and South Africa?, Madagascar?

I doubt the identity of the African plant with this.

12. **Aneilema spiratum,** *R. Br. Prodr.* p. 271 in adn.; *C. B. Clarke, in DC. Monogr. Phan.* iii. p. 207; *Hook. f. Fl. Brit. Ind.* vi. p. 377.

Aneilema nanum, *Kunth, Enum. Pl.* iv. p. 65; *Wight, Ic. Pl. Ind. Or.* vi. p. 31, t. 2077; *C. B. Clarke, Commel. & Cyrt. Beng.* t. 18.

Aneilema melanostictum, *Hance, in Journ. Bot.* vii. (1869) p. 167.

HAINAN (*Swinhoe* ! herb. *Hance*, 14412 !). Mus. Brit.; Herb. Kew.

India, Malay Archipelago.

A. melanostictum, Hance, was doubtfully placed by C. B. Clarke, *DC. Monogr. Phan.* iii. p. 206, as a synonym of *A. esculentum*, Wall., and the incorrect locality "Hongkong" quoted for it; but Swinhoe's specimen from Hainan has been named (in my opinion correctly) *A. spiratum* by Mr. Clarke.

13. **Aneilema vaginatum**, *R. Br. Prodr.* p. 271 in adn.; *Wight, Ic. Pl. Ind. Or.* vi. p. 31, t. 2076; *C. B. Clarke, Commel. & Cyrt. Beng.* t. 23; *et in DC. Monogr. Phan.* iii. p. 216; *Hook. f. Fl. Brit. Ind.* vi. p. 381.

HONGKONG (*Lamont*!). Mus. Brit.

India, Cambodia.

1. **Commelina auriculata**, *Blume, Enum. Pl. Jav.* i. p. 2; *C. B. Clarke, in DC. Monogr. Phan.* iii. p. 186.

FORMOSA: Tamsui (*Oldham*, 578!); KWANGTUNG: Macao (*Meyen*); HONGKONG (*Wright*, 544!). Mus. Brit.; Herb. Kew.

Malay Archipelago, Australia.

2. **Commelina benghalensis**, *Linn. Sp. Pl.* p. 41; *Wight, Ic. Pl. Ind. Or.* vi. p. 29, t. 2065; *Benth. Fl. Hongk.* p. 376; *C. B. Clarke, Commel. & Cyrt. Beng.* t. 4, *et in DC. Monogr. Phan.* iii. p. 159; *Hook. f. Fl. Brit. Ind.* vi. p. 370.

Commelina procurrens, *Schlecht. in Linnæa*, xxiv. (1851) p. 656, et xxv. (1852) p. 183; *cf. Gartenfl.* iv. (1855) p. 44.

Commelina delicatula, *Schlecht. in Gartenfl.* iii. p. 349, t. 104. fig. *a.*

FORMOSA (*Oldham*, 577!); HUPEH: Ichang (*A. Henry*, 2353!); SZECHUEN: Hokiang and Nankee rice-fields (*Faber*, 965!); KWANGTUNG: Macao (*Tate*!); HONGKONG (*Wright*, 542! *Hance*, 407! *Lamont*!). Mus. Brit.; Herb. Kew.

Widely distributed through the tropics of the eastern hemisphere.

3. **Commelina communis**, *Linn. Sp. Pl.* p. 40; *Benth. Fl. Hongk.* p. 376; *Debeaux, in Act. Soc. Linn. Bordeaux*, xxx. (1874) p. 117, & xxxii. (1875) p. 27; *Fl. Shangh.* p. 65, *et Fl. Tchef.* p. 140; *Hance, in Journ. Bot.* xi. (1874) p. 262; *Franch. in Mém. Soc. Sc. Nat. Cherbourg*, xxiv. (1882) p. 260, *et Pl. David.* i. p. 310; *C. B. Clarke, in DC. Monogr. Phan.* iii. p. 170; *Palibin, in Act. Hort. Petrop.* xix. (1901) p. 115; nec *Kunth*, nec *plur. auct.*

Commelina polygama, *Roth, in Roemer et Usteri, Mag. Bot.* iv. (1790) p. 14; *et Cat. Bot.* i. p. 1.

Commelina vulgaris, *Schmidel, Ic. Pl.* ed. 2, p. 159, tt. 40, 41.

CHINA (*Fortune*, 24!); CHIHLI: Peking (*Bretschneider*, 769! *Bushell*! *David*, 471); SHINGKING: Moukden (*Webster*, 310!); Kaichow to Kinchow (*Ross*, 246!); SHANTUNG: Chefoo (*Ford*! *Debeaux*, *Fauvel*); without locality (*Maingay*, 133!); KIANGSU: Shanghai (*Maingay*, 389, 439!); CHEKIANG: Ningpo Mountains (*Faber*, 18!); KIANGSI: Kiukiang (*Shearer*! *Moellendorf*, *David*, 929); HUPEH: Patung (*A. Henry*, 1800, 4927!), Ichang (*A. Henry*, 76!); HONGKONG (*Lamont*); COREA: Inchon (*Gottsche*), Soul (*Kalinowsky*, *Sontag*); Chemulpo (*Bunge*). Mus. Brit.; Herb. Kew.

Japan, Mandshuria, Ussuri.

Var. **ludens**, *C. B. Clarke, in DC. Monogr. Phan.* iii. p. 171.

Commelina ludens, *Miq. Journ. Bot. Néerl.* i. (1861) p. 88.

KWANGTUNG: Fukwing (*Krone* ex *Miquel*).

I have seen no specimen of this variety, although it is said in Mr. Clarke's monograph to be frequent in South China.

4. **Commelina? Loureirii**, *Kunth, Enum. Pl.* iv. p. 60; *C. B. Clarke, in DC. Monogr. Phan.* iii. p. 191.

Lechea chinensis, *Lour. Fl. Cochinch.* p. 60.

KWANGTUNG: near Canton (ex *Loureiro*).

An altogether doubtful plant.

5. **Commelina nudiflora**, *Linn. Sp. Pl.* p. 41, neque *Mant.* 177, nec *auct.*; *C. B. Clarke, in DC. Monogr. Phan.* iii. p. 144; *Hook. f. Fl. Brit. Ind.* vi. p. 369.

Commelina longicaulis, *Jacq. Ic. Pl. Rar.* ii. p. 8, t. 294.

Commelina ochreata, *Schauer, in Nov. Act. Acad. Nat. Cur.* xix., *Suppl.* i. (1843) p. 447.

Commelina salicifolia, *Benth. Fl. Hongk.* p. 376, non *Roxb.*

Commelina communis, *C. B. Clarke, Commel. & Cyrt. Beng.* t. 1, non *Linn.*

FORMOSA: Takow Plain (*A. Henry*, 2041!), South Cape (*A. Henry*, 357!); KWANGTUNG: Lappas Island (*Vachell*, 83!), Macao and Lintin (*Meyen*); HONGKONG (*Wright*, 543! *Wilford*, 362! *Hance*, 406!); LUCHU (*Wright*, 347!). Mus. Brit.; Herb. Kew.

Widely distributed throughout the warmer regions of both hemispheres.

6. **Commelina obliqua**, *Buch.-Ham., in D. Don, Prodr. Fl. Nep.* p. 45; *C. B. Clarke, Commel. & Cyrt. Beng.* tt. 9, 10, 11, *et in DC. Monogr. Phan.* vi. p. 178; *Hook. f. Fl. Brit. Ind.* vi. p. 372 (non *Vahl*).

Commelina polyspatha, *Wight, Ic. Pl. Ind. Or.* vi. p. 29, t. 2066.

FORMOSA: Tamsui (*A. Henry*, 1447!); KWANGTUNG: Lofaushan (*Ford*!), Lantao Island (*Ford*, 406!). Herb. Kew.

India, Malay Archipelago.

7. **Commelina undulata**, *R. Br. Prodr.* p. 270; *C. B. Clarke, in DC. Monogr. Phan.* iii. p. 179; *Hook. f. Fl. Brit. Ind.* vi. p. 373.

CHINA (*Millet*! *Lay*!); CHUSAN ARCHIPELAGO (*Yvan* ex *C. B. Clarke*); FORMOSA: Takow (*Playfair*, 62!); KWANGTUNG: Canton (*Hance*, 21055!), Macao (*Gaudichaud*, 62, ex *C. B. Clarke*); COREA: N.E. coast (*Perry*, 105!); LUCHU (*Wright*, 347, 348!). Mus. Brit.; Herb. Kew.

India, Australia, Philippines.

1. **Cyanotis arachnoidea**, *C. B. Clarke, in DC. Monogr. Phan.* iii. p. 250; *Hook. f. Fl. Brit. Ind.* vi. p. 386.

Cyanotis pilosa, *Wight, Ic. Pl. Ind. Or.* vi. p. 32, t. 2083, non *Roem. et Schult.*

FORMOSA: Bankinsing Mountains (*A. Henry*, 900!). Herb. Kew.

Indian Peninsula and Ceylon.

2. **Cyanotis axillaris**, *Roem. & Schult. Syst.* vii. p. 1154; *Benth. Fl. Hongk.* p. 378; *C. B. Clarke, Commel. & Cyrt. Beng.* t. 35, *et in DC. Monogr. Phan.* iii. p. 244; *Hook. f. Fl. Brit. Ind.* vi. p. 388.

Tradescantia axillaris, *Roxb. Pl. Corom.* ii. p. 5, t. 107.

KWANGTUNG: Pakhoi (*Playfair*, 216!); HONGKONG (*Hance*, 427!). Mus. Brit.; Herb. Kew.

India, Malay Archipelago, Australia.

3. **Cyanotis barbata**, *D. Don, Prodr. Fl. Nep.* p. 46; *C. B. Clarke, Commel. & Cyrt. Beng.* t. 37, *et in DC. Monogr. Phan.* iii. p. 248; *Hook. f. Fl. Brit. Ind.* vi. p. 385.

Cyanotis nobilis, *Hassk. Commel. Ind.* p. 148; *C. B. Clarke, Commel. & Cyrt. Beng.* t. 39.

Cyanotis fasciculata, *Benth. Fl. Hongk.* p. 378, non *Roem. & Schult.*

KWANGTUNG: Mountains of the province of Pakwan, near

Canton (*Sampson*, hb. *Hance*, 428); HONGKONG (*Harland*! *Lamont*!). Mus. Brit.; Herb. Kew.

India, Burma.

4. **Cyanotis cristata,** *Roem. & Schult.*, var. **Griffithii,** *C. B. Clarke, in DC. Monogr. Phan.* iii. p. 248; *Hook. f. Fl. Brit. Ind.* vi. p. 385.

HAINAN (*A. Henry*, 8413!). Herb. Kew.

Malay Peninsula.

Mr. Clarke does not describe the corolla, which is gamopetalous.

1. **Floscopa scandens,** *Lour. Fl. Cochinch.* p. 193; *C. B. Clarke, in DC. Monogr. Phan.* iii. p. 265; *Hook. f. Fl. Brit. Ind.* vi. p. 390.

Floscopa paniculata, *Benth. Fl. Hongk.* p. 377 (excl. synon. Afr. et Amer.).

Dithyrocarpus paniculatus, *Kunth, Enum. Pl.* iv. p. 79; *C. B. Clarke, Commel. & Cyrt. Beng.* t. 34.

Dithyrocarpus petiolatus, D. undulatus, & D. Rothii, *Wight, Ic. Pl. Ind. Or.* vi. p. 32, tt. 2079, 2080.

KIANGSI (*Staunton*!); FOKIEN: Amoy (*Swinhoe*!); KWANGTUNG: Lappas Island (*Vachell*, 109!), Macao (*Lay*!), Lofaushan (*Faber*, 4!); HONGKONG (*Harland*, 544! *Lamont*!). Mus. Brit.; Herb. Kew.

India, Burma, Malay Archipelago, Australia.

1. **Forrestia chinensis,** *N. E. Brown*, n. sp.

Herba perennis, caule robusto, elato, glabro. *Folia* 7–12 poll. longa, 1¾–2¾ poll. lata, lanceolata vel elliptico-lanceolata, apice acuminata, basi longe attenuata, supra glabra, subtus minute puberula, interdum costis hirsutis; vaginæ puberulæ vel longe et appresse villosæ, ore villoso-ciliatæ. *Flores* dense capitati, sessiles; bracteæ ovatæ, acutæ, carinatæ, glabræ, marginibus carinisque ciliatis; sepala 4½–5½ lin. longa, oblonga, cucullata, obtusa, acute carinata, carinis dense vel sparse fulvo-hirtis, marginibus ciliatis; petala oblanceolato-oblonga, obtusa; filamenta apice barbata; ovarium superne hirsutum. *Capsula* 3 lin. longa, 2½ lin. lata, ellipsoideo-trigona, superne hirsuta; semina 1¼–1⅓ lin. longa, 1¼ lin. lata, rugosa.

FORMOSA: Tamsui (*Oldham*, 578/1!), Bankinsing Mountains

(*A. Henry*, 149!, 1618 A!); KWANGTUNG: without locality (*Ford*, 256!); HAINAN: without locality (*A. Henry*, 8670!). Mus. Brit.; Herb. Kew.

This plant was united with *F. hispida*, Less. & Rich., by Mr. Clarke in *DC. Monogr. Phan.* iii. p. 236, but that species is a native of New Guinea and quite distinct.

1. **Pollia sorzogonensis,** *Endl. ex Miq. Fl. Ind. Bat.* iii. p. 541; *C. B. Clarke, in DC. Monogr. Phan.* iii. p. 126; *Benth. Fl. Hongk.* p. 377; *Hook. f. Fl. Brit. Ind.* vi. p. 367.

Aclisia sorzogonensis, *E. Meyer, in Presl, Rel. Haenk.* i. p. 138, t. 25.

FORMOSA: Bankinsing (*A. Henry*, 133, 575!); HUPEH: Ichang (*A. Henry*, 4163!); KWANGTUNG: Lofaushan (*Ford*!); HONGKONG (*Wright*, 545! *Lamont*! *Forbes*! *Hance*, 1035!). Mus. Brit.; Herb. Kew.

Var. **gigantea,** *C. B. Clarke, in DC. Monogr. Phan.* iii. p. 127; *Hook. f. Fl. Brit. Ind.* vi. p. 368.

Pollia japonica, *Hance, in Journ. Bot.* xvi. (1878) p. 233, not of *Thunb.*

Aneilema didymum, *Seem. Bot. Voy. 'Herald,'* p. 422.

HUPEH: Changyang (*A. Henry*, 6231 A!); KWANGTUNG: Filoitsz, North River (*Sampson* in hb. *Hance*, 11388!). Mus. Brit.; Herb. Kew.

India, Malay Archipelago.

2. **Pollia Zollingeri,** *C. B. Clarke, in DC. Monogr. Phan.* iii. p. 127.

FORMOSA (*Wilford*, 521!); SZECHUEN: Mount Omei, 4000 ft. (*Faber*, 309!). Herb. Kew.

Malay Archipelago.

1. **Streptolirion volubile,** *Edgew. in Proc. Linn. Soc.* i. (1845) p. 254; *et Trans. Linn. Soc.* xx. (1846) p. 90, t. 2; *Wight, Ic. Pl. Ind. Or.* vi. p. 32, t. 2081; *C. B. Clarke, in DC. Monogr. Phan.* iii. p. 261; *Franch. Pl. David.* i. p. 311; *Hook. f. Fl. Brit. Ind.* vi. p. 389.

CHIHLI: Peking Mountains (*Bretschneider*, 154! *David*, 403, *Bullock*, 98!); HUPEH: Patung district (*A. Henry*, 2428, 2482, 4170!), Nanto (*A. Henry*, 2587!); KWANGTUNG (*Ford*, 261, 310!). Mus. Brit.; Herb. Kew.

Himalaya, Khasia, Burma.

2. **Streptolirion longifolium,** *Gagnep. in Bull. Soc. Bot. France*, xlvii. (1900) p. 334, t. 11.

YUNNAN: near Yunnan-sen (*Ducloux* ex *Gagnepain*).

1. **Tradescentia vaga,** *Lour. Fl. Cochinch.* p. 193, non *Blume.*

KWANGTUNG: Canton (*Loureiro*).

This is altogether a doubtful plant. It was combined by Roemer & Schultes in their *Systema*, vii. p. 1153, with a Javan plant (*T. vaga*, Blume) under the name of *Cyanotis vaga*, Roem. & Schult.; but their description is based upon a specimen from Java sent to them by Blume, and does not at all accord with that of Loureiro. The plant described by C. B. Clarke in *DC. Monogr. Phan.* iii. p. 252 as *Cyanotis vaga* is probably that which Roemer & Schultes had in view, and cannot be the *T. vaga*, Lour., therefore the name *Cyanotis vaga* must be restricted to the Javan plant.

148. FLAGELLARIACEÆ.

(By N. E. BROWN, A.L.S.)

1. **Flagellaria indica,** *Linn. Sp. Pl.* 333; *Lam. Encycl.* ii. p. 502, t. 266; *Gaertn. Fruct.* i. p. 61, t. 16. f. 9; *Lour. Fl. Cochinch.* p. 211; *Willd. Sp. Pl.* ii. p. 263; *Redouté, Lil.* v. t. 257; *Roem. & Schult. Syst.* vii. pt. 2, p. 1492; *Roxb. Fl. Ind.* ii. p. 154; *Kunth, Enum. Pl.* iii. p. 370; *Hook. f. Fl. Brit. Ind.* vi. p. 391.

FORMOSA: South Cape (*A. Henry*, 1355!); HAINAN (*A. Henry*, 8657!). Herb. Kew.

India, Malay Archipelago, Polynesia, and Australia.

149. JUNCACEÆ.

(By N. E. BROWN, A.L.S.)

1. **Luzula campestris,** *DC. Fl. Franç.* iii. p. 161; *Kunth, Enum. Pl.* iii. p. 307; *Hook. f. Fl. Brit. Ind.* vi. p. 401; *Reichb. Ic. Fl. Germ.* ix. p. 14, tt. 375–376; *Syme, English Bot.* ed. 3, x. p. 8, t. 1551; *Buchenau, in Engl. Bot. Jahrb.* xii. (1890) p. 155.

Luzula multiflora, *Lej. Fl. Envir. Spa*, i. p. 169.

Luzula campestris, *DC.*, var. multiflora, *Celakov. Prodr. Fl. Böhmen*, 1869, p. 85, & 1881, p. 749; *Buchenau, in Engl. Bot. Jahrb.* xii. (1890) p. 161; *Franch. Pl. David.* i. p. 312.

Luzula campestris, *DC.*, var. congesta, *Buchenau, in Engl. Bot. Jahrb.* xii. (1890) p. 162.

Luzula multiflora, *Syme, English Bot.* ed. 3, x. t. 1550.

Luzula campestris, *DC.*, var. capitata, *Buchenau, in Engl. Bot. Jahrb.* xii. p. 160; *Palibin, in Act. Hort. Petrop.* xix. (1901) p. 117.

CHIHLI: Jehol (*David* ex *Franchet*); KIANGSU: Chingkiang (*Maries*!), Shanghai (*Maingay*, 279!); CHEKIANG: Tientai Mountain, 3000 ft. (*Faber*, 74!); KIANGSI: Kiukiang (*Maries*!); HUPEH: Patung District (*A. Henry*, 1793, 3739!); SZECHUEN: near Tachienlu, 9000–13,000 ft. (*Pratt*, 12! *Soulié*, 753); COREA (*Perry*), Soul (*Kalinowsky* ex *Palibin*), Mount Yisan (*Sontag* ex *Palibin*). Mus. Brit.; Herb. Kew.

Generally distributed in temperate regions.

2. **Luzula chinensis**, *N. E. Brown*, n. sp.

Herba perennis, cæspitosa, 2–2½ ped. alta. *Folia* 4–8 poll. longa, 4–9 lin. lata, late linearia, acuminata, glabra, juniora sparsim ciliata, adulta glabra. *Inflorescentia* elongata, interrupta, subcontracta, e cymis 3–4 composita; cymæ corymbosæ, erectæ, compactæ, multifloræ, 2 inferiores distantes; rami filiformes, erecti. *Bracteæ* late ovatæ, acutæ vel breviter acuminatæ. *Perianthii* segmenta subæqualia, 1 lin. longa, acuminata, rubescentia. *Stamina* 6, inclusa. *Pistillum* inclusum; stigmata 3, ovario æquilonga.—*L. effusa*, Buchenau, in Engl. Bot. Jahrb. xii. (1890) p. 463, nec p. 106.

SZECHUEN (*A. Henry*, 8829! *Pratt*, 360!). Mus. Brit.; Herb. Kew.

This more closely resembles the Tropical American *L. gigantea*, Desv., than any other species, but the perianth-segments do not taper to such fine awn-like points, and are reddish instead of dark brown. From *L. effusa*, Buchen., it is at once distinguished by the more numerous flowers and compact, not diffuse, cymes.

3. **Luzula effusa**, *Buchen. Kritisch. Verz. Junc.* p. 88; *et in Engl. Bot. Jahrb.* vi. (1885) p. 196, & xii. (1890) p. 106.

HUPEH: Fang, 6000–9500 ft. (*A. Henry*, 6809!); KANSU (*Potanin*); SZECHUEN: Mount Omei (*Faber*, 1175!). Mus. Brit.; Herb. Kew.

India.

4. **Luzula pilosa**, *Willd.*, var. **plumosa**, *Franch. Pl. David.* ii. p. 138.

Luzula plumosa, *E. Mey. in Linnæa*, xxii. (1849) p. 387; *Buchenau, in Engl. Bot. Jahrb.* xii. (1890) p. 85.

Szechuen: Moupin (*David* ex *Franchet*).

North India to Japan.

5. **Luzula vernalis**, *DC. Fl. Franç.* iii. p. 160; *Desv. in Journ. Bot.* (1808) i. p. 138; *Kunth. Enum. Pl.* iii. p. 297; *E. Mey. in Linnæa*, xxii. (1849) p. 383.

Luzula pilosa, *Willd. Enum. Pl. Hort. Berol.* p. 393; *Buchenau, in Engl. Bot. Jahrb.* xii. (1890) p. 83, t. 1. fig. 18; *Syme, Engl. Bot.* ed. 3, x. p. 5, t. 1548; *Reichb. Ic. Fl. Germ.* ix. t. 381.

Hupeh: Patung district (*A. Henry*, 3515, 3515 A, 3515 B, 5206!), Changlo (*A. Henry*, 6316!). Mus. Brit.; Herb. Kew.

North Temperate Zone.

1. **Juncus alatus**, *Franch. & Savat. Enum. Pl. Jap.* ii. pp. 98 & 534; *Buchenau, in Engl. Bot. Jahrb.* xii. (1890) p. 304, & xxix. (1900) p. 238.

Chekiang: Ningpo Mountains (*Faber*, 6!); Kiangsi: Kiukiang (*Shearer*); Hupeh: Patung district (*A. Henry*, 1794!), Chienshih (*A. Henry*, 5785!). Herb. Kew.

Japan.

2. **Juncus allioides**, *Franch. Pl. David.* ii. p. 137; *Buchenau, in Engl. Bot. Jahrb.* xii. (1890) p. 399.

Juncus macranthus, *Buchenau, l. c.* xii. (1890) p. 398, & xxix. (1900) p. 238.

Hupeh: Hsingshan (*A. Henry*, 6927!); Kansuh (*Potanin*!); Szechuen (*A. Henry*, 8916!), near Tachienlu, 9000–13,000 ft. (*Pratt*, 398! *Soulié*, 827!), Moupin (*David*), Tongolo (*Soulié*, 720, 961!). Herb. Kew.

3. **Juncus bufonius**, *Linn. Sp. Pl.* ed. 1, p. 328; *Kunth, Enum. Pl.* iii. pp. 353 & 597; *Bunge, Enum. Pl. Chin. Bor.* p. 67; *Buchenau, in Engl. Bot. Jahrb.* xii. (1890) p. 174, t. 1. figs. 4–5, t. 2. fig. 3, & t. 3. fig. 5; *Syme, English Bot.* ed. 3, x. p. 34, tt. 1572–1573; *Reichb. Ic. Fl. Germ.* ix. p. 18, t. 395; *Franch. Pl. David.* i. p. 311; *Hook. f. Fl. Brit. Ind.* vi. p. 392.

Chihli: Jehol (*David*, 1896, ex *Franchet*), near Kantai and Tanshan (ex *Bunge*); Szechuen (*A. Henry*, 8843! *Pratt*, 390!). Mus. Brit.; Herb. Kew.

Generally distributed except in the hottest and coldest regions.

4. **Juncus bulbosus**, *Linn. Sp. Pl.* ed. 1, p. 327; *Kunth, Enum. Pl.* iii. p. 351.

Juncus compressus, *Jacq. Enum. Stirp. Vind.* pp. 60 & 235; *Franch. in Mém. Soc. Sc. Nat. Cherbourg*, xxiv. (1882) p. 261; *et Pl. David.* i. p. 311; *Buchenau, in Engl. Bot. Jahrb.* xii. (1890) p. 185; *Reichb. Ic. Fl. Germ.* ix. p. 19, t. 399; *Syme, English Bot.* ed. 3, x. p. 37, t. 1575; *Hook. f. Fl. Brit. Ind.* vi. p. 393; *Palibin, in Act. Hort. Petrop.* xix. (1901) p. 116.

Juncus bottnicus, *Wahlb. Fl. Lapp.* p. 82, t. 5; *Bunge, Enum. Pl. Chin. Bor.* p. 67.

CHIHLI: Jehol (*David*, 1907!), near Kantai (ex *Bunge*), Tanshan (ex *Bunge*), and without precise locality (*Potanin*); SHINGKING: Laoling (*Ross*, 380!); SHANTUNG: Chefoo (*Fauvel*, *Perry*!); COREAN ARCHIPELAGO: Port Hamilton (*Oldham*, 896!). Herb. Kew.

Europe and North Asia, Kashmir.

5. **Juncus diastrophanthus**, *Buchenau, in Engl. Bot. Jahrb.* xii. (1890) p. 309, & xxix. (1900) p. 238.

SZECHUEN: Nanchuan (*Bock von Rosthorn*, 2102, ex *Buchenau*).

6. **Juncus effusus**, *Linn. Sp. Pl.* ed. 1, p. 326; *Kunth, Enum. Pl.* iii. p. 320; *Buchenau, in Engl. Bot. Jahrb.* xii. (1890) p. 228; *Franch. in Mém. Soc. Sc. Nat. Cherbourg*, xxiv. (1882) p. 261; *et Pl. David.* ii. p. 137; *Hance, in Journ. Bot.* xiii. (1875) p. 107; *Kurz, in Journ. Bot.* xxxi. (1893) p. 193; *Syme, English Bot.* ed. 3, x. p. 21, t. 1561; *Reichb. Ic. Fl. Germ.* ix. p. 21, t. 413; *Hook. f. Fl. Brit. Ind.* vi. p. 392; *Palibin, in Act. Hort. Petrop.* xix. (1901) p. 116.

Juncus Leersii, *Buchenau, in Engl. Bot. Jahrb.* xxix. (1900) p. 238, non *Marsson.*

Scirpus capsularis, *Lour. Fl. Cochinch.* p. 44.

SHINGKING: Liautong Peninsula (*Swinhoe*!); SHANTUNG: Chefoo (*Fauvel* ex *Franchet*); KIANGSU: Shanghai (*Maingay*, 421!); CHEKIANG: Ningpo (*Cooper*!, *Swinhoe*!); FOKIEN: Amoy (*Sampson*!); FORMOSA: Tamsui (*Oldham*, 580!); HUPEH: Patung district (*A. Henry*, 1781, 4049!), Nanto and mountains to the northward (*A. Henry*, 1953, 3855!); SZECHUEN: Mount Omei, 3400 ft. (*Faber*, 1136!), Kinshan (*Bock von Rosthorn*, 78, ex *Buchenau*), Moupin (*David* ex *Franchet*); YUNNAN (*Anderson*!); KWANGTUNG: Canton, near the White Cloud Monastery

(*Sampson*, 843, 2157 !); COREA, Port Chusan (*Wilford*, 935 !), Soul (*Kalinowsky* ex *Palibin*); COREAN ARCHIPELAGO (*Oldham*, 894 !); LUCHU (*Wright*, 328 !). Mus. Brit.; Herb. Kew.

Europe, Asia, America, Africa, and Australia.

7. **Juncus glaucus,** *Sibth. Fl. Oxon.* p. 113; *Kunth, Enum. Pl.* iii. p. 316; *Syme, English Bot.* ed. 3, x. p. 25, t. 1563; *Reichb. Ic. Fl. Germ.* ix. p. 22, t. 415; *Buchenau, in Engl. Bot. Jahrb.* xii. (1890) p. 243, t. 1. figs. 2–3, et t. 3. fig. 8; *Hook. f. Fl. Brit. Ind.* vi. p. 393.

Juncus inflexus, *Huds. Fl. Angl.* ed. 1, p. 130 (1762) ! and perhaps also of *Linn. Sp. Pl.* ed. 1, p. 326.

KANSUH (*Potanin* !). Herb. Kew.

Europe, Asia, Africa, and New Zealand.

8. **Juncus himalensis,** *Klotzsch, in Klotzsch & Garcke, Bot. Ergebn. Reise Prinz Waldemar*, p. 60, t. 97; *Buchenau, in Engl. Bot. Jahrb.* xii. (1890) p. 405; *Hook. f. Fl. Brit. Ind.* vi. p. 398.

SZECHUEN: near Tachienlu, 9000–13,500 ft. (*Pratt*, 96, 844 !). Mus. Brit.; Herb. Kew.

India.

Pratt's no. 844 has broader leaves than is usual in this species, but in other characters seems not to differ.

9. **Juncus khasiensis,** *Buchenau, in Engl. Bot. Jahrb.* xii. (1890) p. 407; *Hook. f. Fl. Brit. Ind.* vi. p. 399.

SZECHUEN: Tachienlu (*Soulié*, 652 !). Herb. Kew.

Also in Assam.

10. **Juncus luzuliformis,** *Franch. Pl. David.* ii. p. 137; *Buchenau, in Engl. Bot. Jahrb.* xii. (1890) p. 204, et xxix. (1900) p. 238.

SZECHUEN: Moupin (*David* ex *Franchet*).

11. **Juncus modestus,** *Buchenau, in Engl. Bot. Jahrb.* xii. (1890) p. 203.

HUPEH: Fang (*A. Henry*, 6846, 6868 !); SZECHUEN: Valley of the River Heiho, above Hunneiku (*Potanin* ex *Buchenau*), near Tachienlu, 9000–10,000 ft. (*Pratt*, 162 !). Mus. Brit.; Herb. Kew.

12. **Juncus modicus,** *N. E. Brown*, n. sp.

Dense cæspitosus. *Caules* 3–5 poll. longi, filiformes vel setacei. *Cataphylla* basilaria truncata, setaceo-mucronata. *Folia* caulina 2, setacea vel filiformia, inferius 2½–4½ poll. longum, superius ¼–1 poll. longum. *Capitula* 3–8-flora. *Bracteæ* flores subæquantes vel breviores, lanceolatæ, acutæ, pallidæ. *Perianthii* segmenta 1½–2½ lin. longa, ¼ lin. lata, linearia vel lineari-lanceolata, acuta, pallida. *Stamina* 6, exserta; filamenta filiformia; antheræ lineares. *Fructus* 2–2½ lin. longus, perianthium æquans; stylus exsertus ½ lin. longus.

HUPEH: Fang, 8000-9000 ft. (*A. Henry*, 6834, 6854, 6868 A!). Mus. Brit.; Herb. Kew.

Allied to *J. sphenostemon*, Buchenau.

13. **Juncus pauciflorus,** *R. Br. Prodr.* p. 259; *Kunth, Enum. Pl.* iii. p. 320; *Buchenau, in Engl. Bot. Jahrb.* xii. (1890) p. 238; *Palibin, in Act. Hort. Petrop.* xix. (1901) p. 116.

CHEKIANG: in running streams near Ningpo (*Oldham*, 76!); KIANGSI: Kiukiang (*Shearer*!); HUPEH: Ichang (*A. Henry*, 222, 592, 3653!); SZECHUEN: Mount Omei, 3400 ft. (*Faber*, 1137!); COREAN ARCHIPELAGO (*Oldham*, 895!), Tracey Island, in a marshy place near the beach (*Oldham*, 1067!). Herb. Kew.

Japan, New Caledonia, Australia, and New Zealand.

14. **Juncus Potanini,** *Buchenau, in Engl. Bot. Jahrb.* xii. (1890) p. 394, et xxix. (1900) p. 238.

KANSUH: by the Lumbu River and Jombunon River (*Potanin* ex *Buchenau*); SZECHUEN: Kzeruzo (*Potanin* ex *Buchenau*).

I have not seen an authentic example of this plant, but probably a specimen from the following locality should be referred to it:—

HUPEH: Kuei, on wooded precipices, 6000 ft. (*A. Henry*, 6169!). Herb. Kew.

15. **Juncus prismatocarpus,** *R. Br. Prodr.* p. 259; *Kunth, Enum. Pl.* iii. p. 337; *Buchenau, in Engl. Bot. Jahrb.* xii. (1890) p. 310; *Hook. f. Fl. Brit. Ind.* vi. p. 395.

Juncus Leschenaultii, *J. Gay, in Laharpe, Monogr. Jonc.* p. 137; *Kunth, Enum. Pl.* iii. p. 336; *Benth. Fl. Hongk.* p. 380.

Juncus sinensis, *J. Gay, in Laharpe, Monogr. Jonc.* p. 137; *Kunth, Enum. Pl.* iii. p. 336; *Buchenau, in Engl. Bot. Jahrb.* xii. (1890) p. 313.

Juncus prismatocarpus, *R. Br.*, var. Leschenaultii, *Buchenau, in Engl. Bot. Jahrb.* xii. (1890) p. 311, & xxix. (1900) p. 238.

Juncus lamprocarpus, *Buchenau, in Engl. Bot. Jahrb.* xxix. (1900) p. 238, non *Ehrh.*

SHANTUNG: at the foot of Chefoo Mountains (*Faber*, 75! *Fauvel*); FORMOSA (*Oldham*, 579! *Swinhoe*!); HUPEH: Patung district (*A. Henry*, 2471, 4902!), Ichang and neighbourhood (*A. Henry*, 3504, 3518, 3984!), Nanto (*A. Henry*, 3863!); YUNNAN (*Anderson*!); KWANGTUNG: Pakhoi (*Playfair*, 50!); HONGKONG (*Hance*, 599! *Faber*, 240! *Wright*, 554! *Wilford*, 269!); STRAITS OF COREA: Tsusima Island (*Wilford*, 809!); LUCHU ISLANDS (*Wright*, 329!). Mus. Brit.; Herb. Kew.

Japan, India, Australia, New Zealand.

16. **Juncus Przewalskii,** *Buchenau, in Engl. Bot. Jahrb.* xii. (1890) p. 401.

KANSUH: alpine heights near the river Tetung, a tributary of the Hoangho (*Przewalski* ex *Buchenau*).

17. **Juncus setchuenensis,** *Buchenau, in Engl. Bot. Jahrb.* xxix. (1900) p. 238, name only.

SZECHUEN: Nanchuan (*Bock von Rosthorn*, 2101, ex *Buchenau*).

18. **Juncus Thomsoni,** *Buchenau, in Bot. Zeit.* xxv. (1867) p. 148; *et in Engl. Bot. Jahrb.* xii. (1890) p. 390.

KANSUH: Tangut region (*Przewalski*!); SZECHUEN: Tongolo (*Soulié*, 960!). Herb. Kew.

Himalaya.

This is treated as a form of *J. leucomelas*, Royle, in *Hook. f. Fl. Brit. Ind.* vi. p. 397, and it may be, but it seems constantly to differ in wanting the leafy prolongation to the lowest bract which is so characteristic of *J. leucomelas*, Royle.

19. **Juncus Hancockii,** *Hance, in Journ. Bot.* xvi. (1878) p. 111.

NORTH CHINA: Siao Wutaishan (*Hancock*). Mus. Brit.

Only one specimen of this is at present known, which is referred to *J. triglumis*, Linn., by Buchenau in *Engl. Bot. Jahrb.* xii. (1890) p. 388; but it differs from that species in having a short sheathing leaf near the top of the stem, and when better known will probably prove distinct.

150. PALMÆ.

(By C. H. Wright, A.L.S.)

1. **Areca Catechu**, *Willd. Sp. Pl.* iv. i. p. 594; *Lour. Fl. Cochinch.* p. 567; *Kunth, Enum. Pl.* iii. p. 184; *Mart. Nat. Hist. Palm.* iii. p. 169, t. 102; *Hook. f. Fl. Brit. Ind.* vi. p. 405; *Bretschn. Hist. Europ. Bot. Disc.* p. 11.

Areca Cathecu, *Linn. Sp. Pl.* ed. 1, p. 1189; *Burm. f. Fl. Ind.* p. 241.
Areca hortensis, *Lour. Fl. Cochinch.* p. 568 in obs.

South China (rare, ex *Loureiro*); Formosa: Takow (*A. Henry* !); Hainan (*A. Henry*, 8406 !). Mus. Brit.; Herb. Kew.

India and Malaya.

1. **Arenga Engleri**, *Becc. Malesia*, iii. p. 184; *Kew Bulletin*, 1895, p. 19.

Formosa: Tamsui (*Oldham*, 626, 627 !), Kelung (*Ford*, 26 !), Takow, Ape's Hill (*A. Henry*, 798 !), Bankinsing (*A. Henry*, 798 A !). Mus. Brit.; Herb. Kew.

"This palm is called in Formosa *Ts'ung*, the name given in North [Formosa ?] to *Trachycarpus Fortunei*."—*A. Henry*.

2. **Arenga saccharifera**, *Labill. in Mém. Inst. Par.* iv. p. 209; *Griff. Palms Brit. Ind.* p. 164, t. 235 A; *Mart. Nat. Hist. Palm.* iii. p. 191, t. 108; *Kunth, Enum. Pl.* iii. p. 197; *Hook. f. Fl. Brit. Ind.* vi. p. 421; *Engl. Bot. Jahrb.* vi. (1885) p. 52.

Luchu Archipelago (*Döderlein* ex *Engler*).

South-east Asia and Malaya.

1. **Caryota mitis**, *Lour. Fl. Cochinch.* p. 569; *Mart. Nat. Hist. Palm.* iii. p. 191; *Hook. f. Fl. Brit. Ind.* vi. p. 423.

Caryota urens, *Jacq. Fragm.* p. 20, t. 12. fig. 1, non *Linn.*

Hainan: Kuanglang (*A. Henry*, 8373 !). Herb. Kew.

2. **Caryota ochlandra**, *Hance, in Journ. Bot.* xvii. (1879) p. 176.

Kwangtung: Canton, and Kwangsi (*Hance*, 20332 !). Mus. Brit.

1. **Phœnix Hanceana,** *Naudin, in Kerch., Palm.* p. 252, *et Man. Acclim.* p. 407; *Hance, in Journ. Bot.* xvii. (1879) p. 174.

Phœnix acaulis?, *Benth. Flor. Hongk.* p. 340; *Hance, in Ann. Sc. Nat., Bot.* 5me sér. v. (1866) p. 247, *et Journ. Linn. Soc., Bot.* xiii. (1872) p. 129; *Seemann, Bot. Voy. 'Herald,'* p. 416.

Phœnix farinifera, *Hance, in Journ. Bot.* vii. (1869) p. 15, *et Journ. Linn. Soc., Bot.* xiii. (1872) p. 129, non *Roxb.*

Phœnix humilis, *Royle,* var. Hanceana, *Becc. Malesia,* iii. pp. 348 et 392.

FORMOSA: Takow (*Swinhoe,* 17!), Taiwan (*Playfair,* 374!); KWANGTUNG: Macao (*Vachell*!); HONGKONG (*Wright,* 507! *Hance,* 1192! *Ford* in hb. *Forbes,* 608!); HAINAN (*A. Henry,* 8595!). Mus. Brit.; Herb. Kew.

1. **Licuala Fordiana,** *Becc. Malesia,* iii. p. 198.

KWANGTUNG: Lofaushan (*Ford,* 139! 22267 in hb. *Hance*!). Mus. Brit.; Herb. Kew.

1. **Livistona chinensis,** *Mart. Nat. Hist. Palm.* iii. p. 240, t. 146. figs. 1–3; *Walp. Ann.* v. p. 816; *Franch. et Savat. Enum. Pl. Jap.* ii. p. 2; *Hance, in Journ. Bot.* xvii. (1879) p. 174; *Hook. f. Fl. Brit. Ind.* vi. p. 434; *Bull. Soc. Bot. France,* viii. (1861) p. 426.

Livistona sinensis, *Griff. Palms Brit. Ind.* p. 131, t. 226 D.

Latania chinensis, *Jacq. Fragm.* p. 16, t. 11. fig. 1; *Bretschn. Hist. Europ. Bot. Disc.* pp. 120 et 712.

SOUTH CHINA (ex *Martius*); HONGKONG: cultivated (*Hance,* 21013!). Mus. Brit.

Cultivated in India and Japan.

1. **Trachycarpus excelsus,** *H. Wendl. ex C. Gay, in Bull. Soc. Bot. France,* viii. (1861) p. 429; *Diels, in Engl. Bot. Jahrb.* xxix. (1900) p. 233.

Trachycarpus Fortunei, *H. Wendl. in Bull. Soc. Bot. France,* viii. (1861) p. 429; *Diels, in Engl. Bot. Jahrb.* xxix. (1900) p. 233.

Chamærops excelsa, *Thunb. Fl. Jap.* p. 130; *Mart. Nat. Hist. Palm.* iii. p. 251, t. 125; *Kunth, Enum. Pl.* iii. p. 250; *Walp. Ann.* v. p. 818; *Franch. et Savat. Enum. Pl. Jap.* ii. p. 1.

Chamærops Fortunei, *Hook. in Bot. Mag.* t. 5221; *Debeaux, Fl. Shangh.* p. 59.

KIANGSU: Shanghai (*Montigny* ex *Gay*), Kiangnan (ex *Gay*); CHEKIANG: Chusan (*Fortune*), Hangtcheoufou (ex *Gay*); KIANGSI (*Staunton* !); FORMOSA: Tamsui (*Oldham*, 628 !); SZECHUEN: Chung Ching (*Mesny* in hb. *Hance*, 21707 !); COREAN ARCHIPELAGO: Tsusima (*Wilford*, 750 !). Mus. Brit.; Herb. Kew.

Japan.

This plant has been cultivated in many parts of China for a considerable time, and it is doubtful in what provinces it is really wild. C. Gay in the above-mentioned paper sums up the evidence without, however, coming to any definite conclusion.

2. **Trachycarpus khasianus,** *H. Wendl. ex C. Gay, in Bull. Soc. Bot. France*, viii. (1861) p. 429.

Chamærops khasiana, *Griff. in Calc. Journ. Nat. Hist.* v. (1845) p. 341; *Kurz, in Journ. Bot.* xi. (1873) p. 193; *Bot. Mag.* t. 7128; *Hook. f. Fl. Brit. Ind.* vi. p. 436.

YUNNAN: Momyen (*Anderson* !). Herb. Kew.

Eastern Bengal and Burmah.

This species is inserted here on the faith of Kurz's determination. The specimen at Kew is very imperfect.

1. **Rhapis flabelliformis,** *Ait. Hort. Kew.* ed. 1, iii. p. 473; *Mart. Nat. Hist. Palm.* iii. p. 253, t. 144; *Kunth, Enum. Pl.* iii. p. 251; *Jacq. Hort. Schœnbr.* t. 316; *Bot. Mag.* t. 1371; *Franch. et Savat. Enum. Pl. Jap.* ii. p. 2; *Benth. Fl. Hongk.* p. 340; *Bretschn. Hist. Europ. Bot. Disc.* p. 126.

Rhaphis Kwanwortsik, *H. Wendl. Ind. Palm.* p. 34; *Seem. Bot. Voy. 'Herald,'* p. 416.

CHINA (*Macartney* ! *Staunton* !); HONGKONG (*Hance*, 10164 ! *Lamont* ! *Urquhart* ! *Wilford*, 138 !); LUCHU ARCHIPELAGO (*Wright* !). Mus. Brit.; Herb. Kew.

Japan.

2. **Rhapis humilis,** *Blume, Rumph.* ii. p. 54; *Mart. Nat. Hist. Palm.* iii. p. 254; *Walp. Ann.* v. p. 818.

CHINA (ex *Blume*).

3. **Rhapis major,** *Blume, Rumph.* ii. p. 55; *Mart. Nat. Hist. Palm.* iii. p. 254; *Walp. Ann.* v. p. 818.

CHINA (ex *Blume*).

1. **Calamus formosanus,** *Becc. in Records Bot. Survey India*, ii. (1902) p. 211.

FORMOSA: Kelung (*Oldham*, 629!), Bankinsing (*A. Henry*, 522, 522 A!), South Cape (*A. Henry*, 587!). Mus. Brit.; Herb. Kew.

2. **Calamus Henryanus,** *Becc. in Records Bot. Survey India*, ii. (1902) p. 199.

YUNNAN: Szemao Mountains (*A. Henry*, 12239!). Herb. Kew.

3. **Calamus Margaritæ,** *Hance, in Journ. Bot.* xii. (1874) p. 266.

FORMOSA: Bankinsing (*A. Henry*, 521, 521 A!); HONGKONG (*Mrs. Dods* in hb. *Hance*, 18407!), Happy Valley (*Ford*!), Washerman's Ravine (*Urquhart*!). Mus. Brit.; Herb. Kew.

4. **Calamus tetradactylus,** *Hance, in Journ. Bot.* xii. (1875) p. 289.

HONGKONG: Wongneichung (*Dods* in hb. *Hance*, 18979! *Ford*!), Victoria (*Lamont*!), Little Hongkong (*Lamont*!); HAINAN: Hoihere (*A. Henry*, 8213!). Mus. Brit.; Herb. Kew.

Saigon.

5. **Calamus thysanolepis,** *Hance, in Journ. Bot.* xi. (1874) p. 265.

HONGKONG (*Dods* in hb. *Hance*, 18373! *Lamont*!). Mus. Brit.; Herb. Kew.

6. **Calamus Walkeri,** *Hance, in Journ. Bot.* xi. (1874) p. 266.

HONGKONG (*Walker* in hb. *Hance*, 18225!). Mus. Brit.; Herb. Kew.

1. **Cocos nucifera,** *Linn. Sp. Pl.* ed. 1, p. 1188; *Lour. Fl. Cochinch.* p. 566; *Seem. Bot. Voy. 'Herald,'* p. 416; *Williams, The Middle Kingdom*, ed. 2, i. p. 360.

HONGKONG: planted on the sea-shore (ex *Seemann*); HAINAN: cultivated (ex *Loureiro*).

All tropical shores.

151. PANDANACEÆ.

(By C. H. Wright, A.L.S.)

1. **Pandanus furcatus**, *Roxb. Hort. Beng.* p. 71, *et Fl. Ind.* iii. p. 744; *Hook. f. Fl. Brit. Ind.* vi. p. 484; *Balf. f. in Journ. Linn. Soc.* xvii. (1878) p. 47; *Warburg, in Engl. Pflanzenr., Pandanaceæ*, p. 75.

Pandanus urophyllus, *Hance, in Journ. Bot.* xii. (1875) p. 68.

Pandani sp., *Hance, in Journ. Linn. Soc., Bot.* xiii. (1872) p. 129.

Kwangtung: Canton, Lienchan (*Lamont* !); Hongkong (*Harland and Lamont* in hb. *Hance*, 18394 !). Mus. Brit.

India and Malaya.

2. **Pandanus odoratissimus**, *Linn. f. Suppl.* p. 424; *Lour. Fl. Cochinch.* p. 603; *Balf. f. in Journ. Linn. Soc.* xvii. (1878) p. 54; *Hance, in Journ. Linn. Soc.* xiii. (1872) p. 129; *Warburg, in Engl. Pflanzenr., Pandanaceæ*, p. 46.

Pandanus fascicularis, *Lam. Encycl.* i. p. 372 (excl. var. β); *Seem. Bot. Voy. 'Herald,'* p. 416; *Hook. f. Fl. Brit. Ind.* vi. p. 485.

Formosa: Tamsui (*Oldham*, 631 !); Kwangtung: Macao (*Vachell* !); Hongkong (*Hance*, 715 !); Hainan: Hoihow (*A. Henry*, 8290 !). Mus. Brit.; Herb. Kew.

Indian Archipelago and North Australia to Sandwich Islands.

1. **Freycinetia formosana**, *Hemsl. in Kew Bulletin*, 1896, p. 166; *Warburg, in Engl. Pflanzenr., Pandanaceæ*, p. 41.

Formosa: without locality (*Oldham*, 630 !), Kelung (*Ford*, 45 !). Herb. Kew.

152. TYPHACEÆ.

(By N. E. Brown, A.L.S.)

1. **Typha angustata**, *Bory & Chaub. Expéd. Sc. de Morée*, ii. pt. 2, p. 338; *Boiss. Fl. Orient.* v. p. 50; *Rohrb. in Verhandl. Bot. Ver. Prov. Brandenb.* xi. (1869) p. 87, figs. 4–6; *Kronfeld, in Verhandl. zool.-bot. Gesellsch. Wien*, 1889, p. 159, t. 4. fig. 6, t. 5. fig. 1; *Hook. f. Fl. Brit. Ind.* vi. p. 489.

China (*Karolkow* ex *Kronfeld*); Chihli: near Peking (*Bretschneider*, *Fischer* ex *Kronfeld*).

Throughout the warmer parts of Asia, South-eastern Europe, and the north-eastern part of Africa.

2. **Typha angustifolia**, *Linn. Sp. Pl.* ed. 1, p. 971; *Bunge, Enum. Pl. Chin. Bor.* p. 67; *Syme, English Bot.* ed. 3, ix. p. 4, t. 1386; *Reichb. Ic. Fl. Germ.* ix. p. 2, t. 321; *Rohrb. in Verhandl. Bot. Ver. Prov. Brandenb.* xi. (1869) p. 81, fig. 3; *Kronfeld, in Verhandl. zool.-bot. Gesellsch. Wien*, 1889, p. 150, t. 5. fig. 2; *Debeaux, Fl. Tchef.* p. 132; *Franch. in Mém. Soc. Sc. Nat. Cherbourg*, xxiv. (1884) p. 260.

CHIHLI: near Kantai (ex *Bunge*); SHANTUNG: Chefoo and vicinity (ex *Debeaux, Fauvel* ex *Franchet*); FORMOSA: Takow (*A. Henry*, 1815!). Herb. Kew.

Widely dispersed in temperate regions.

3. **Typha latifolia**, *Linn. Sp. Pl.* ed. 1, p. 971; *Kunth, Enum. Pl.* iii. p. 90; *Syme, English Bot.* ed. 3, ix. p. 2, t. 1385; *Reichb. Ic. Fl. Germ.* ix. p. 2, t. 323; *Rohrb. in Verhandl. Bot. Ver. Prov. Brandenb.* xi. (1869) p. 75, fig. 1; *Kronfeld, in Verhandl. zool.-bot. Gesellsch. Wien*, 1889, p. 176, t. 5. fig. 11; *Lour. Fl. Cochinch.* p. 552?; *Bretschn. Early Res.* p. 181.

CHINA (ex *Loureiro*). Frequent in North China (ex *Bretschneider*).

Widely distributed in north temperate and subtropical regions.

4. **Typha Laxmanni**, *Lepechin, in Nov. Act. Acad. Petrop.* xii. (1801) pp. 84, 335, t. 4; *Kronfeld, in Verhandl. zool.-bot. Gesellsch. Wien*, 1889, p. 167, t. 4. fig. 3, et t. 5. fig. 15; *Hook. f. Fl. Brit. Ind.* vi. p. 489.

CHIHLI: near Peking (*Bretschneider*, 771!). Herb. Kew.

Widely dispersed in temperate Asia.

5. **Typha Martini**, *Jord.*, var. **Davidiana**, *Kronfeld, in Verhandl. zool.-bot. Gesellsch. Wien*, 1889, p. 149.

Typha Laxmanni, *Franch. Pl. David.* p. 312, non *Lepechin* (ex *Kronfeld*).

CHIHLI: Jehol (*David*, 1860, ex *Franchet*).

6. **Typha minima**, *Funck, in Hoppe, Bot. Taschenb.* (1794) pp. 118, 187; *Hoffm. Deutschl. Fl.* ed. 2, ii. p. 251; *Braune, Salzb. Fl.* ii. p. 624; *Willd. Sp. Pl.* iv. p. 198; *Franch. Pl. David.* p. 313; *Reichb. Ic. Fl. Germ.* ix. p. 1, t. 319. figs. 742, 743: *Kronfeld, in Verhandl. zool.-bot. Gesellsch. Wien*, 1889,

p. 144, t. 4. fig. 2, & t. 5. fig. 7, and incl. var. Regelii, *Kronf.* p. 147, t. 4. fig. 4, & t. 5. fig. 9.

Typha Laxmanni, *Ledeb. Fl. Ross.* iv. p. 3; *Rohrb. in Verhandl. Bot. Ver. Prov. Brandenb.* xi. (1869) p. 91, non *Lepechin.*

Typha minor, *Smith, Fl. Brit.* iii. p. 960, *& in Engl. Bot.* ed. 1, t. 1457; *Bunge, Enum. Pl. Chin. Bor.* p. 67.

Typha Bungeana, *Presl, Epimel. Bot.* p. 239; *Walp. Ann.* iii. p. 495; *Kurz, in Journ. Bot.* v. (1867) p. 96.

CHIHLI: Jehol (*David*, 2723, ex *Franchet*), near Kantai (ex *Bunge*); KANSUH: Tangut (*Przewalski*!); CHINA (*Karolkow & Krause* ex *Kronfeld*). Herb. Kew.

Temperate Asia and Europe.

7. **Typha orientalis**, *Presl, Epimel. Bot.* p. 239; *Walp. Ann.* iii. p. 495; *Kronfeld, in Verhandl. zool.-bot. Gesellsch. Wien*, 1889, p. 175, t. 4. fig. 1, & t. 5. fig. 14.

Typha Shuttleworthii, *Koch & Sond.*, var. orientalis, *Rohrb. in Verhandl. Bot. Ver. Prov. Brandenb.* xi. (1869) p. 80.

Typha latifolia, *Bretschn. Early Res.* p. 181, non *Linn.* (ex *Kronfeld*).

Typha japonica, *Miq. Ann. Mus. Bot. Lugd.-Bat.* iii. p. 160; *Franch. et Savat. Enum. Pl. Jap.* ii. p. 11.

NORTH CHINA (ex *Bretschneider*); CHIHLI: north-west of Peking (*Bretschneider*, *Moellendorf*!); HUPEH: Nanto (*A. Henry*, 2105!), Patung (*A. Henry*, 5118, 7396!), Hsingshan (*A. Henry*, 6501!). Mus. Brit.; Herb. Kew.

Japan.

153. AROIDEÆ.

(By N. E. BROWN, A.L.S.)

1. **Pinellia cordata**, *N. E. Br.*, n. sp.

Tuber globosum, $\frac{1}{2}$–$\frac{3}{4}$ poll. diam. *Folia* subhastato-cordata, acuminata, $2\frac{1}{2}$–$3\frac{1}{2}$ poll. longa, $1\frac{1}{4}$–$1\frac{3}{4}$ poll. lata, petiolo 5–6 poll. longo, basi et apice tuberifero. *Scapus* $1\frac{1}{2}$–2 poll. longus, quam petiolus dimidio brevior. *Spathæ* tubus ovoideus, $\frac{1}{4}$ poll longus, $\frac{1}{6}$ poll. latus; lamina $\frac{3}{4}$–1 poll. longa, cucullata, obtusa, marginibus recurvis? *Spadicis appendix* filiformis, sigmoideo-erecta, $2\frac{1}{2}$ poll. longa.

CHEKIANG: Foot of Tientai Mountain (*Faber*, 82!); KIANGSI: Kiukiang (*Shearer*!). Herb. Kew.

The leaves of this species somewhat resemble the cordate ones of the juvenile state of *P. tuberifera*, Tenore, but are not so constricted above the basal lobes. It is readily distinguished by its short scape and broader and more hooded limb of the smaller spathe, which has a much shorter and more ovoid tube; the bulbils on the petioles are also smaller and more pointed than in *P. tuberifera*, Tenore.

2. **Pinellia integrifolia**, *N. E. Br. in Hook. Ic. Plant.* xix. t. 1875.

HUPEH: Ichang (*A. Henry*, 663, 4323 !). Mus. Brit.; Herb. Kew.

3. **Pinellia pedatisecta**, *Schott, in Oest. Bot. Wochenbl.* vii. 1857, p. 341; *Schott, Prodr. Aroid.* p. 20.

Pinellia tuberifera, *Tenore*, var. pedatisecta, *Engl. in DC. Monogr. Phan.* ii. p. 567.

Pinellia Wawræ, *Engl. in DC. Monogr. Phan.* ii. p. 568; *Franch. Pl. David.* i. p. 313.

CHIHLI: Peking, Nankow Pass (*Wawra*, 1037, ex *Engler*); Sang-yu (*David*, 2236, ex *Franchet*); SZECHUEN: Yangtze-kiang (*Faber*, 979 !). Herb. Kew.

4. **Pinellia tripartita**, *Schott, Synop. Aroid.* p. 5; *Prodr. Aroid.* p. 20; *Engl. in DC. Monogr. Phan.* ii. p. 566; *N. E. Brown, in Journ. Linn. Soc., Bot.* xviii. (1881) p. 246.

Atherurus tripartitus, *Blume, Rumphia*, i. p. 137, tt. 31 et 37 F; *Kunth, Enum. Pl.* iii. p. 54.

Arisæma tripartitum, *Engl. in DC. Monogr. Phan.* ii. p. 538.

LUCHU ARCHIPELAGO (*C. Wright*, 319 !). Herb. Kew.

Japan.

5. **Pinellia tuberifera**, *Tenore, in "Atti IIIa. riun. Scienz. Ital.* p. 522; *Sem. Cat. Hort. Neap.* 1830," *et in Atti Reale Accad. Scienze*, iv. (1839) p. 70, t. x.; *Schott, Prodr. Aroid.* p. 20; *Gen. Aroid.* t. 4; *Engl. in DC. Monogr. Phan.* ii. p. 566; *Hance, in Journ. Linn. Soc., Bot.* xiii. (1872) p. 88; *Franch. in Mém. Soc. Sc. Nat. Cherbourg*, xxiv. (1884) p. 260; *Palibin, in Act. Hort. Petrop.* xix. (1901) p. 117.

Arum macrourum, *Bunge, Enum. Pl. Chin. Bor.* p. 67.

Arum ternatum, *Thunb. Fl. Jap.* p. 233.

Atherurus ternatus, *Blume, Rumphia*, i. p. 136; *Kunth, Enum. Pl.* iii. p. 54.

CHIHLI: Peking (*Williams*! *Bushell*! *Bullock*, 94! *Bunge*), Nankow Pass (*Wawra*, 987, ex *Engler*); HUPEH: Ichang (*A. Henry*, 3646!); SHANTUNG: Chefoo (*Fauvel* ex *Franchet*); PUTOY ISLAND (*Wright*, 508); COREA: Soul (*Kalinowsky* ex *Palibin*). Mus. Brit.; Herb. Kew.

Japan.

Var. **subpandurata**, *Engl. Bot. Jahrb.* i. (1881) p. 488; *Franch. Pl. David.* i. p. 313.

CHIHLI: Peking (*David*, 2330, ex *Engler*). Herb. Mus. Paris.

I have not seen a specimen of this variety, but from the description it would appear to be merely an abnormal form.

1. **Pistia Stratiotes**, *Linn. Sp. Pl.* ed. 1, p. 963; *Kunth, Enum. Pl.* iii. p. 8; *Engl. in DC. Monogr. Phan.* ii. p. 634; *Hook. f. Fl. Brit. Ind.* vi. p. 497.

KWANGTUNG: Whampoa (*Hance*, 6065!). Mus. Brit.; Herb. Kew.

Throughout the tropics.

1. **Arisæma amurense**, *Maxim. Prim. Fl. Amur.* p. 264; *Engl. in DC. Monogr. Phan.* ii. p. 549.

Arisæma amurense, *Maxim.*, var. robustum, *Engl. in DC. Monogr. Phan.* ii. p. 550; *Palibin, in Act. Hort. Petrop.* xix. (1901) p. 117.

SHINGKING: Laoling (*Webster*, 31!); Black Bear Valley, Toonghwahien (*Ross*, 32!); COREA: Port Hamilton (*Wilford*!). Herb. Kew.

Mandshuria, Amur.

Var. **Sazensoo**, *Engl. in DC. Monogr. Phan.* ii. p. 550.

Arisæma japonicum, var. Sazensoo, *Blume, Rumphia*, i. p. 107?

Arisæma serratum, *Schott*, var., *Baker et S. Moore, in Journ. Linn. Soc. Bot.* xvii. (1879) p. 387.

SHINGKING: Chienshan and south of Hingjing (*Ross*, 250!); CHEKIANG: Tientai Mountain, 3000 ft. (*Faber*, 84!); KIANGSI: Chinkiang and Kiukiang (*Maries*!); HUPEH: South Patung (*A. Henry*, 5394!), Nanto (*A. Henry*, 5394 B, 4571! and probably 3030). Mus. Brit; Herb. Kew.

Var. **magnidens**, *N. E. Br.*, n. var.; foliolis grosse dentatis, dentibus ¼–½ poll. longis, cum minoribus interjectis.

HUPEH (*A. Henry*, without locality, 6363 A! 6730 A!), South Patang (*A. Henry*, 5393!). Mus. Brit.; Herb. Kew.

The variety *Sazensoo* is very variable in the size and form of the leaflets, which sometimes arise almost directly from the apex of the petiole, at others have long stalks as in the typical form. The more southern forms have two leaves to each plant, with leaflets attaining 9 inches in length and 6 inches in breadth, and occasionally six or seven in number instead of five. The variety *magnidens* is a very striking form, but I can find nothing to distinguish it except the remarkably large teeth of the leaflets.

2. **Arisæma asperatum**, *N. E. Br.*, n. sp.

Petiolus 12 poll. longus, toto processibus brevibus dense obtectus; lamina tripartita, segmentis omnibus sessilibus, lateralibus 10–10½ poll. longis, 9 poll. latis, subrhomboideo-ellipticis, acutis, intermedio paullo breviore, latissime obovato, apice retuso apiculato, basi cuneato, costis subtus asperatis. *Scapus* 10 poll. longus, ut in petiolo processibus brevibus asperatus. *Spathæ* tubus 2–2¼ poll. longus, cylindricus; lamina 4½ poll. longa, abrupte procurva (vel decurva?), oblanceolata, acuminata. *Spadicis appendix* 2½ poll. longa, anguste cylindrica, obtusa, $\frac{1}{10}$–⅛ poll. crassa, basi abrupte incrassata, truncata, apice e fauce longe procurva.

HUPEH: Patung district, cultivated, the tuber used as a drug (*A. Henry*, 3776!). Herb. Kew.

More nearly allied to *A. verrucosum*, Schott, than to any other species, but perfectly distinct in its inflorescence and in the petiole being much more densely covered with short cylindric or conical processes.

3. **Arisæma Bockii**, *Engl. in Engl. Bot. Jahrb.* xxix. (1900) p. 235.

SZECHUEN: Nanchuan (*Bock von Rosthorn*, 882, ex *Engler*).

4. **Arisæma consanguineum**, *Schott, in Bonplandia*, vii. (1859) p. 27, *et Prodr. Aroid.* p. 52; *Hook. f. Fl. Brit. Ind.* vi. p. 505.

Arisæma erubescens, *Schott*, var. consanguineum, *Engl. in. DC. Monogr. Phan.* ii. p. 558.

Arisæma Giraldii, *Baroni, in Bull. Soc. Tosc. Ort.* xviii. (1893) p. 356, t. 12; *et Bull. Soc. Bot. Ital.* (1893) p. 515; *Engl. in Engl. Jahrb.* xxix. (1900) p. 236.

Arisæma Tatarinowii, *Schott, in Bonplandia,* vii. (1859) p. 27; *et Prodr. Aroid.* p. 53; *Engl. in DC. Monogr. Phan.* ii. p. 559, *et in Engl. Bot. Jahrb.* xxix. (1900) p. 236, incl. var. latisecta, *Engl.*

CHIHLI: Peking (*Tatarinow* ex *Schott*); HUPEH: Patung (*A. Henry*, 3780, 4653, 5303, 5303 A, 5397, 5379 A & B!); HONGKONG: Lantao Island, 2000–3000 feet (*Westland*, 93!); SZECHUEN: Nanchuan (*Bock von Rosthorn*, 2103, 2104, 2105, 2106, 2107, 2108, 2109, 2110, 2111, ex *Engler*), Changlingkang (*Bock von Rosthorn*, 644, 650, ex *Engler*), Tsakulao (*Bock von Rosthorn*, 2562, ex *Engler*); SHENSI: Tsinlingshan (*Giraldi*!). Mus. Brit.; Herb. Kew.

Sikkim, Khasia, Kumaon.

5. **Arisæma cordatum,** *N. E. Br.*, n. sp.

Petiolus 18 poll. longus, basi breviter vaginatus, brunneus, atroviride maculatus, lamina pedatipartita, segmentis 5–6½ poll. longis, 2–2½ poll. latis, oblongo-ellipticis utrinque acutis, sessilibus. *Scapus* 2–4 poll. longus. *Spathæ* tubus 1⅛–1¼ poll. longus, cylindricus; lamina ampla, explanata triangulari-cordata, acuta, 2–2½ poll. longa et lata, auriculis rotundatis. *Spadix* unisexualis, appendice in filum tenuem quam spatha duplo longiorem attenuata.

KWANGTUNG: Tai Mo Mountain opposite Hongkong, 2300 feet (*Westland*, 92!). Herb. Kew.

A very distinct species, unlike any other known to me, readily distinguished by the triangular-cordate limb of the spathe, when flattened out, and long filiform appendix. In the living state the form of the spathe would probably be something like that of *A. nepenthoides*, Mart., but with proportionately broader auricles. The scapes may be longer than I have described them, as they are detached, and there is no tuber.

6. **Arisæma Franchetianum,** *Engl. in Engl. Bot. Jahrb.* i. (1881) p. 487, et xxix. (1900) p. 236; *Franch. Pl. David.* ii. p. 139.

SZECHUEN: Moupin (*David* ex *Engler*).

7. **Arisæma heterophyllum,** *Blume, Rumphia,* i. p. 110; *Kunth, Enum. Pl.* iii. p. 20; *Schott, Prodr. Aroid.* p. 35; *N. E. Brown, in Journ. Linn. Soc., Bot.* xviii. (1881) p. 250.

Arisæma Thunbergii, *Blume,* var. heterophyllum, *Engl. in DC. Monogr. Phan.* ii. (1882) p. 546.

Arisæma curvatum, *Hance, in Journ. Bot.* xviii. (1880) p. 302, non *Kunth.*

KIANGSU: Fengwangshan near Shanghai (*Forbes* in hb. *Hance,* 8139!); CHEKIANG: Tientai Mountain, 3000 feet (*Faber,* 85!); KIANGSI: Kiukiang (*Shearer*!); HUPEH: Ichang (*A. Henry,* 212, 3574!), South Patung (*A. Henry,* 5508!); COREA: Soul Mountains (*Carles*!), West coast (*Wykeham Perry,* 50!); COREAN ARCHIPELAGO; Surly Island (*Oldham,* 817!). Mus. Brit.; Herb. Kew.

Japan, according to Blume, but I have seen no Japanese specimen.

8. **Arisæma japonicum,** *Blume, Rumphia,* i. p. 106; *Kunth, Enum.* iii. p. 19; *Schott, Prodr. Aroid.* p. 40; *Franch. et Savat. Enum. Pl. Jap.* ii. p. 5; *Engl. in DC. Monogr. Phan.* ii. p. 549.

Arisæma latisectum, *Blume, Rumphia,* i. p. 110.

Arum dracunculus, *Thunb. Fl. Jap.* p. 233, non *Linn.*

CHEKIANG: Tientai Mountain (*Faber,* 86!); FORMOSA: Kelung (*Oldham,* 634? leaf only); HUPEH: Patung (*A. Henry,* 5371!); SZECHUEN: South Wushan (*A. Henry,* 5536!). Herb. Kew.

Japan.

9. **Arisæma lobatum,** *Engl. Bot. Jahrb.* i. (1881) p. 487; *Franch. Pl. David.* ii. p. 138.

SZECHUEN: Moupin (*David* ex *Engler*).

Var. **Rosthornianum,** *Engl. in Engl. Bot. Jahrb.* xxix. (1900) p. 235.

SZECHUEN: Nanchuan (*Bock von Rosthorn,* 651, 1237, ex *Engler*).

10. **Arisæma parvum,** *N. E. Brown, in Journ. Linn. Soc., Bot.* xxix. (1892) p. 320.

SZECHUEN: near Tachienlu (*Pratt,* 841!). Herb. Kew.

11. **Arisæma penicillatum**, *N. E. Brown, in Journ. Linn. Soc., Bot.* xviii. (1881) p. 248, t. 5.

Arisæma laminatum, *Benth. Fl. Hongk.* p. 342, non *Blume.*

HONGKONG (*Harland*, 1026! *Hance*, 1238!), top of Ridge (*Urquhart*, 182!), Victoria Peak (*Ford*, 1! *Lamont*!). Mus. Brit.; Herb. Kew.

12. **Arisæma pictum**, *N. E. Brown, in Journ. Linn. Soc., Bot.* xxix. (1892) p. 321.

SZECHUEN: near Tachienlu (*Pratt*, 61!). Herb. Kew.

Probably specimens collected by Dr. Henry in the province of HUPEH (5381 A & 5381 B) and in the province of SZECHUEN at S. Wushan (5381 C) belong to this species, but the tuber bears two leaves, the leaflets are all much broader, the middle one being elliptic-rhomboid and nearly as broad as long, and the spathe appears to have a very short tail. Henry's 5381, however, from the province of HUPEH, has the middle leaflet oblong in form and more like that of *A. pictum*, but the lateral leaflets are stalked. All these may be forms of one variable species, but more material with perfect spathes are needed to decide. Mus. Brit.; Herb. Kew.

13. **Arisæma ringens**, *Schott, Melet.* p. 17; *Prodr. Aroid.* p. 31; *Kunth, Enum. Pl.* iii. p. 17; *Gartenfl.* 1861, p. 1, t. 313; *Flore des Serres*, xii. (1857) p. 167, tt. 1269, 1270; *Franch. et Savat. Enum. Pl. Jap.* ii. p. 4; *Hance, in Journ. Bot.* xvii. (1879) p. 15; *Engl. in DC. Monogr. Phan.* ii. p. 534.

Arisæma præcox, *De Vriese, Hortus Sparnbergensis*, ex *K. Koch, in Allgem. Gartenzeit.* 1857, p. 87; *Schott, Prodr. Aroid.* p. 32; *Bot. Mag.* t. 5267; *Franch. et Savat. Enum. Pl. Jap.* ii. p. 4.

Arisæma Sieboldii, *De Vriese*, ex *K. Koch, in Allgem. Gartenzeit.* 1857, p. 85.

Arisæma ringens, *Schott*, var. Sieboldii, *Engl. in DC. Monogr. Phan.* ii. p. 534; *Palibin, in Act. Hort. Petrop.* xix. (1901) p. 117.

Arisæma ringens, *Schott*, var. præcox, *Engl. in DC. Monogr. Phan.* ii. p. 535.

KIANGSU: Gutzlaff Island, near Shanghai (*Herb. Hongkong Bot. Gard.* 101!); FORMOSA (*Oldham*, 633! & 118! [hb. *Hance*, 11066!], *Swinhoe*! *Hancock*, 10, a form with narrower leaflets!); COREA: Port Hamilton (*Wilford*, 662!); COREAN ARCHIPELAGO (*Oldham*, 816!); LUCHU ARCHIPELAGO (*Wright*, 314!). Mus. Brit.; Herb. Kew.

Japan.

14. **Arisæma Thunbergii,** *Blume, Rumphia*, i. p. 105; *Kunth, Enum. Pl.* iii. p. 19; *Schott, Prodr. Aroid.* p. 38; *Franch. et Savat. Enum. Pl. Jap.* ii. p. 4; *Engl. in DC. Monogr. Phan.* ii. p. 546, *et in Engl. Bot. Jahrb.* xxix. (1900) p. 236.

Arum dracontium, *Thunb. Fl. Jap.* p. 233, non *Linn.*

HUPEH: Chienshih, South Patung (*A. Henry*, 5370, 5370 A!); COREA: Port Hamilton (*Wilford*, 660!); COREAN ARCHIPELAGO: Tsusima Island (*Wilford*, 660!). Mus. Brit.; Herb. Kew.

Japan.

15. **Arisæma pentaphyllum,** *Schott, Melet.* p. 17, *et Prodr. Aroid.* p. 59; *Blume, Rumphia*, i. p. 109; *Kunth, Enum. Pl.* iii. p. 20; *Engl. in DC. Monogr. Phan.* ii. p. 560.

Arum pentaphyllum, *Linn. Sp. Pl.* ed. 1, p. 964; *Lour. Fl. Cochin.* p. 533.

CHINA (ex *Loureiro*).

This is altogether a doubtful plant, and is only known from the figure given by Zanoni in his 'Istoria Botanica,' p. 170, t. 78 (1675), under the name "Rumphal pianta orientale," which has been copied in later works by other authors. Zanoni gives India as its habitat, and Louriero's Chinese plant may be different. The plant figured by Zanoni is certainly not an *Arisæma*, but probably some species of *Typhonium*, badly drawn.

1. **Typhonium divaricatum,** *Decne. in Nouv. Ann. Mus. Par.* iii. (1834) p. 367 [*Herb. Timor.* p. 39]; *Blume, Rumphia*, i. p. 130, t. 36 *a*; *Kunth, Enum. Pl.* iii. pp. 26 et 581; *Schott, Aroid.* i. p. 12, t. 18, *Gen. Aroid.* t. 17, *et Prodr. Aroid.* p. 106; *Somoku Zusetsu*, ed. 2, xix. t. 4; *Seem. Bot. Voy.* '*Herald*,' p. 417; *Engl. in DC. Monogr. Phan.* ii. p. 611; *Hook. f. Fl. Brit. Ind.* vi. p. 510.

Arum divaricatum, *Linn. Sp. Pl.* ed. 1, p. 966; *Roxb. Fl. Ind.* iii. p. 503; *Wight, Ic. Pl. Or.* iii. pt. 1, p. 6, t. 790; *Lodd. Bot. Cab.* t. 516; *Benth. Fl. Hongk.* p. 342.

Arum trilobatum, *Curt. Bot. Mag.* tt. 339 et 2324, non *Linn.*

Arum diversifolium, *Blume, Cat. Gewass. Buitenz.* p. 102.

CHINA (*Hance* ex *Seemann*); KWANGTUNG: Tingushan, Canton (*Lamont*, 1076!); HONGKONG (*Champion*, 289! *Hance*!). Mus. Brit.; Herb. Kew.

Ceylon, Malay Archipelago, and Japan, according to authors; but I have seen no native specimens of this plant except those from

Hongkong above quoted; all the others I have seen are cultivated specimens. Possibly *T. Roxburghii*, Schott (*T. javanicum*, Miq.), or *T. Motleyanum*, Schott, may have been mistaken for this species, as they are very similar, but the neuter organs are reflexed or decurved at their tips, whilst in *T. divaricatum* they are erect.

2. **Typhonium giganteum**, *Engl. in Bot. Jahrb.* iv. (1883) p. 66, t. 1.

Typhonium giganteum, *Engl.*, var. Giraldii, *Baroni, in Nuovo Giorn. Bot. Ital.* ser. 2, iv. (1897) p. 189, t. 6; *Sprenger, in Gard. Chron.* ser. 3, xxxii. (1902) p. 150, fig. 51.

CHIHLI: Peking Mountains (*Skatschkow* ex *Engler*, *Bretschneider*, 132!); HUPEH: Hsingshan, 4500 feet (*A. Henry*, 6537!); SHENSI (*Giraldi*!). Mus. Brit.; Herb. Kew.

1. **Amorphophallus campanulatus**, *Decne. in Nouv. Ann. Mus. Par.* iii. (1834) p. 366 [*Herb. Timor.* p. 38]; *Blume, Rumphia*, i. p. 139, excl. tt. 32, 33, et descriptione; *Wight, Ic.* iii. pt. 1, p. 5, t. 785; *Engl. in DC. Monogr. Phan.* ii. p. 309, excl. planta javanica; *Hance, in Journ. Bot.* xvii. (1879) p. 15; *Hook. f. Fl. Brit. Ind.* vi. p. 513.

Amorphophallus virosus, *N. E. Brown, in Gard. Chron.* ser. 2, xxiii. (1885) p. 759; *Bot. Mag.* t. 6978.

Arum campanulatum, *Roxb. Fl. Ind.* iii. p. 509.

SOUTH CHINA (*Hance*, 17601!). Mus. Brit.

Tropical Asia.

2. **Amorphophallus Henryi**, *N. E. Brown*, n. sp.

Folia 1½–2 ped. diam., glabra; petiolus levis; segmenta terminalia, 3½–5 poll. longa, 1 poll. lata, lanceolata, acuminata, cetera minora. *Pedunculus* 2–4 poll. longus, levis. *Spatha* 4–5 poll. longa, inferne convoluta, intus basi verrucosa; lamina late ovata, acuta, atropurpurea. *Spadix* sessilis, quam spatha duplo longior; pars feminea 6–10 lin. longa, 4–6 lin. crassa, cylindrica, mascula ¾–1 poll. longa, obconica; appendix 5–7 poll. longa, fusiformis, acuta. *Ovarium* globosum, 2-loculare; stylus ½–⅔ lin. longus; stigma magnum, capitatum.

FORMOSA: Takow, on Ape's Hill in rocky situations (*A. Henry*, 776!). Herb. Kew.

3. **Amorphophallus hirtus**, *N. E. Brown*, n. sp.

Folii immaturi glabri segmenta lineari-lanceolata, attenuato-

acuminata, petiolo levi. *Pedunculus* 15 poll. vel ultra longus, levis. *Spatha* 6 poll. longa, glabra, inferne convoluta, intus basi verrucosa; lamina ovata, subacuta. *Spadix* sessilis, quam spatha duplo longior, inter partes masculæ et femineæ pilis paucis instructus, pars feminea $\frac{3}{4}$–1 poll. longa, $\frac{1}{2}$ poll. crassa, mascula 1–$1\frac{1}{4}$ poll. longa, basi angustata; appendix 7–10 poll. longa, $\frac{3}{4}$–1 poll. crassa, tereto-attenuata, pilis longis flexuosis laxe obtecta. *Ovarium* ellipsoideum vel subglobosum, 2-loculare; stylus $\frac{1}{2}$ lin. longus, crassus; stigma 2-lobum.

FORMOSA: Takow, on Ape's Hill (*A. Henry*, 1914!). Herb. Kew.

This differs from all the other species of *Amorphophallus* by the presence of hairs upon the appendix, resembling *Helicodiceros crinitus*, Schott, in this respect, and the few that occur between the male and female parts of the spadix represent the only approach to neuter organs hitherto found in the genus.

4. **Amorphophallus Konjac,** *K. Koch, in Berlin. Allgem. Gartenz.* 1858, pp. 166, 411.

Amorphophallus Rivieri, "*Durieu, in Cat. des graines du jard. Bordeaux*, 1869, p. 12"; *Rev. Hort.* 1870, p. 573, figs. 75-76; 1872, p. 19; 1873, pp. 305 & 344; *Gard. Chron.* 1873, p. 610, figs. 117–119; *Fl. des Serres*, xix. (1873) p. 43, tt. 1958–1961; *Engl. in DC. Monogr. Phan.* ii. p. 312; *Illustr. Hort.* xix. (1872) p. 246; *Monats. Ver. Beförd. Gartenb. Berlin*, 1880, p. 187, t. 7.

Brachyspatha Konjac, *K. Koch, in Berlin. Allgem. Gartenz.* 1858, pp. 166, 412.

Conophallus Konjac, *Schott*, ex *Miq. Annal. Mus. Bot. Lugd.-Bat.* ii. p. 202; *Franch. et Savat. Enum. Pl. Jap.* ii. p. 7.

Arisæma Konjac, *Siebold*, ex *K. Koch, in Berlin. Allgem. Gartenz.* 1858, pp. 166, 412.

Dracontium polyphyllum, *Thunb. Fl. Jap.* p. 234, non *Linn.*

Proteinophallus Rivieri, *Hook. f. in Bot. Mag.* t. 6195.

Tapeinophallus Rivieri, *Baill. Dict. Bot.* i. plate issued in part 5, June 1877, et iv. p. 153.

Hydrosme Rivieri, *Engl. Bot. Jahrb.* i. (1881) p. 188.

SZECHUEN: South Wushan, cultivated (*A. Henry*, 5544!). Herb. Kew.

Cochinchina, Japan (cultivated).

Probably leafy specimens from Ichang (*Henry*, 4223), distributed from Kew, also belong here. Dr. Henry states of it, that "The same plant is cultivated by the name of *Mo-yii*; the rootstock is deprived of its acrid qualities by washing with water, and

is made into what is sold as *Mo-yii tou-fu*. *Tou-fu* is a term applied to cheesy-looking stuff extracted in China from beans (Soja)."

5. **Amorphophallus variabilis**, *Blume, Rumphia*, i. p. 146, tt. 35 & 37 H; *Kunth, Enum. Pl.* iii. p. 33; *Benth. Fl. Hongk.* p. 343; *Engl. in DC. Monogr. Phan.* ii. p. 313.

Brachyspatha variabilis, *Schott, Synop. Aroid.* p. 35, *Gen. Aroid.* t. 29, *et Prodr. Aroid.* p. 127; *Miq. Fl. Ind. Bat.* iii. p. 200; *Gard. Chron.* ser. 2, vi. (1876) p. 680, figs. 129, 130.

KWANGTUNG: Taimoshan (*Westland* in hb. *Hance*, 22422!); HONGKONG (*Harland*, 300!), Mount Gough (*Ford*, hb. *Hance*, 21368!). Mus. Brit.; Herb. Kew.

Java.

1. **Colocasia antiquorum**, *Schott, Melet.* p. 18, *Gen. Aroid.* t. 37, *et Prodr. Aroid.* p. 138; *Miq. Fl. Ind. Bat.* iii. p. 202; *Kunth, Enum. Pl.* iii. p. 37; *Engl. in DC. Monogr. Phan.* ii. p. 491, cum synonymis varietatibusque, var. *illustris*, Engl., exclusa; *Hook. f. Fl. Brit. Ind.* vi. p. 523.

Colocasia antiquorum et C. nymphæfolia, *Wight, Ic. Pl. Ind. Or.* iii. pt. 1, p. 5, t. 786.

Colocasia prunipes, *K. Koch, in Ind. Sem. Hort. Berol.* 1854, *App.* p. 4; *Walp. Ann.* v. p. 871.

Arum esculentum, *Linn. Sp. Pl.* ed. 1, p. 965; *Lour. Fl. Cochinch.* p. 535.

KIANGSI: Kiukiang (*Shearer*!); SZECHUEN (*A. Henry*, 8830!). Herb. Kew.

India, Malay Archipelago, widely cultivated in the tropics.

1. **Alocasia cucullata**, *Schott, in Oestr. Bot. Wochenbl.* iv. (1854) p. 410; *Prodr. Aroid.* p. 155; *Engl. in DC. Monogr. Phan.* ii. p. 498, cum synon.; *Hook. f. Fl. Brit. Ind.* vi. p. 525.

Arum cucullatum, *Lour. Fl. Cochinch.* p. 536; *Roxb. Fl. Ind.* iii. p. 501; *Wight, Ic. Pl. Ind. Or.* iii. pt. 1, p. 6, t. 787.

SZECHUEN: below Chungking (*Faber*, 29!); KWANGTUNG: Canton (ex *Loureiro*): HAINAN (*A. Henry*, 8626!). Herb. Kew.

Khasia.

2. **Alocasia hainanica**, *N. E. Br.*, n. sp.

Petiolus 7–10 poll. longus, usque ad medium vaginatus; lamina 7–8 poll. longa, 4–5 poll. lata, peltata, ovata, basi cordato-sagittata, apice acuta, lobis posticis late ovatis vel triangulari-ovatis obtusis ad $\frac{1}{2}$ poll. connatis, sinu triangulari $1\frac{1}{2}$–2 poll. profundo

sejunctis, nervis lateralibus 5 utrinque costa media abeuntibus, rectis, patentibus. *Pedunculus* solitarius, 4–5 poll. longus, in vaginem petioli longe inclusus. *Spathæ* tubus ¾–1 poll. longus, subcylindricus vel anguste ovoideus; lamina 2–2¾ poll. longa, lanceolata acuminata. *Spadix* 1½–1¾ poll. longus, parte feminea ¼ poll. longa, parte mascula ½ poll. longa, parte intermedia organis neutris dense obtecta; appendix 3 lin. longa, interdum deest; ovaria ovoidea; ovula 4–5.

HAINAN (*A. Henry*, 8679!). Herb. Kew.

3. **Alocasia macrorrhiza**, *Schott, in Oestr. Bot. Wochenbl.* iv. (1854) p. 409, *Gen. Aroid.* t. 40, *et Prodr. Aroid.* p. 146; *Miq. Fl. Ind. Bat.* iii. p. 205; *Engl. in DC. Monogr. Phan.* ii. p. 502; *Hook. f. Fl. Brit. Ind.* vi. p. 526.

Alocasia commutata, *Schott, in Oestr. Bot. Wochenbl.* iv. (1854) p. 409; *Seemann, Bot. Voy. 'Herald,'* p. 416.

Alocasia odora, *C. Koch, in Ind. Sem. Hort. Berol.* 1854, *App.* p. 5; *Walp. Ann.* v. p. 874; *Engl. in DC. Monogr. Phan.* ii. p. 503.

Arum macrorrhizon, *Linn. Sp. Pl.* ed. 1, p. 965; *Lour. Fl. Cochinch.* p. 535.

Arum odorum, *Roxb. Fl. Ind.* iii. p. 499; *Wight, Ic. Pl. Ind. Or.* iii. pt. 1, p. 6, t. 797; *Lodd. Bot. Cab.* t. 416.

Caladium odorum, *Lindl. Bot. Reg.* t. 641.

Caladium odoratum, *Roxb.* ex *Lindl. Bot. Reg.* sub t. 641.

Colocasia odora, *Brongn. in Nouv. Ann. Mus. Par.* iii. (1834) p. 145, pl. 7; *Benth. Fl. Hongk.* p. 343.

Colocasia indica, *Benth.*! *Fl. Hongk.* p. 343, non *Kunth.*

KWANGTUNG: Macao (*Gaudichaud* ex *Engler*); HONGKONG: Tank Ravine (*Urquhart*! *Harland*, 749! *Hance*, 1189!), Mount Gough (*Lamont*, 736!). Mus. Brit.; Herb. Kew.

India, and cultivated in the Eastern Tropics.

[*Arum sagittifolium*, Lour. Fl. Cochinch. p. 534, not of *Linn.*, and excluding synonymy, stated to be "cultivated and wild in Cochinchina and China," is probably a species of *Alocasia*, but I know of no species to which Loureiro's description will apply.]

1. **Aglaonema modestum**, *Schott, ex Engl. in DC. Monogr. Phan.* ii. p. 442.

Aglaonema acutispathum, *N. E. Brown, in Gard. Chron.* ser. 2, xxiv (1885) p. 39.

"Cultivated in South China" (*Hance*, 11459!).

KWANGTUNG? (*Knaggs*!); KIANGSU? (*Knaggs*!). Mus. Brit.; Herb. Kew.

Philippines.

There is some uncertainty about the locality of this; the plant which I described as *A. acutispathum* was bought in Hongkong by Dr. Knaggs and thought to come from the vicinity of Canton. But there is another specimen in the Kew Herbarium from a plant flowered by him labelled "From Shanghai. Brought home by Dr. H. V. Knaggs." From this, and the statement by Hance on his label that it is cultivated, it seems probable that it may prove not to be a native of China. In my description I stated that it was distinct from *A. modestum*, but Engler's reproduction of Schott's figure of this species (Engler, *Araceæ*, no. 74), which I had not then seen, demonstrates that the two are identical. The specimens distributed by Engler as *A. marantifolium* (Engler, Araceæ exsicc. et illustratæ No. 258) also belong to *A. modestum*.

According to a statement with Engler's figure of the type, *A. modestum* was collected at Manila by Gaudichaud and is in the Paris Herbarium.

1. **Scindapsus sinensis**, *Engl. in Engl. Jahrb.* xxix. (1900) p. 234.

SZECHUEN: Nanchuan (*Bock von Rosthorn*, 758, ex *Engler*).

1. **Rhaphidophora angustifolia**, *Schott, in Bonplandia*, v. (1857) p. 45, *et Prodr. Aroid.* p. 378.

Rhaphidophora hongkongensis, *Schott, in Bonplandia*, v. (1857) p. 45; *Prodr. Aroid.* p. 378; *Seem. Bot. Voy. 'Herald,'* p. 417; *Engl. in DC. Monogr. Phan.* ii. p. 240.

Rhaphidophora sylvestris, *Engl. in DC. Monogr. Phan.* ii. p. 239.

Rhaphidophora Peepla, *Benth. Fl. Hongk.* p. 344, non *Schott.*

Scindapsus sylvestris, *Kunth, Enum. Pl.* iii. p. 64; *Miq. Fl. Ind. Bat.* iii. p. 187.

HONGKONG: trailing over rocks below Buddhist temple E. Point (*Lamont*! *Champion*, 535! *Hance* ex *Seemann*). Mus. Brit.; Herb. Kew.

Java, Borneo.

Bentham, Fl. Hongk. p. 344, unites this with *R. lancifolia*, Schott, and *R. Peepla*, Schott, two quite distinct species, and describes from Indian specimens of *R. Peepla*, so that his description does not apply to this plant at all. *R. hongkongensis* was founded on a single leaf collected by Champion, now in the Kew Herbarium, which does not differ in any way from the leaves of *R. angustifolia*. Some leaves of Lamont's specimen in the British Museum Herbarium are 14 inches long, exclusive of the petiole, and 3½ inches broad.

1. **Epipremnum mirabile**, *Schott, Gen. Aroid.* p. 79; *Prodr. Aroid.* p. 388; *Engl. in DC. Monogr. Phan.* ii. p. 249; *N. E. Br. in Gard. Chron.* ser. 2, xvii. (1882) p. 180; *Journ. Bot.* xx. (1882) p. 332; *Hook. f. Fl. Brit. Ind.* vi. p. 549.

Rhaphidophora lacera, *Hassk. in Tijdschr. Nat. Gesch. Phys.* ix. (1842) p. 168; *in Flora*, xxv. (1842) II. *Beibl.* p. 11; *et Pl. Jav. Rar.* p. 155, excl. synon.

Rhaphidophora pinnata, *Schott, in Bonplandia*, v. (1857) p. 45, *et Prodr. Aroid.* p. 384; *Hance, in Journ. Bot.* xvii. (1879) p. 16.

KWANGTUNG: near Whampoa (*Hance*, 15,600! and at Lienfashan, along the banks of Canton River, ex *Hance*). Mus. Brit.; Herb. Kew.

This is the Tonga plant, of which a full account will be found in the 'Journal of Botany,' *l. c.* It is widely distributed from South China and the Malay Peninsula, through the Malay Archipelago and Polynesia, to tropical Australia.

1. **Pothos Loureiri**, *Hook. & Arn. Bot. Beech. Voy.* p. 220, *Schott, Aroid.* p. 23, t. 49, *et Prodr. Aroid.* p. 569; *Engl. in DC. Monogr. Phan.* ii. p. 87.

Pothos terminalis, *Hance, in Ann. Sc. Nat. Bot.* 5^{me} sér. v. (1866) p. 247.

Pothos microphyllus, *Schott, Aroid.* p. 23, t. 40. fig. B (quoad plantam sinensem et figuram), non *Presl.*

Flagellaria repens, *Lour. Fl. Cochinch.* p. 212.

CHINA (*Millett*!); KWANGTUNG: Tingushan, on the West River (*Sampson* in hb. *Hance*, 11,168! *Lamont*, 1064! *Ford*!); HAINAN (*A. Henry*, 112! 7980! & 7980 A! *Swinhoe*!). Mus. Brit.; Herb. Kew.

Tonquin, Cochinchina.

2. **Pothos Seemanni**, *Schott, in Bonplandia*, v. (1857) p. 45; *Aroid.* p. 22, t. 43; *Prodr. Aroid.* p. 564; *Engl. in DC. Monogr. Phan.* ii. p. 83.

Pothos scandens, *Benth. Fl. Hongk.* p. 344; *Lindl. Bot. Reg.* t. 1337, non *Linn.*

FORMOSA (*Oldham*, 308, 632! *Walters*, 765!), Ape's Hill, Takow (*Playfair*, 438!); HUPEH: Ichang (*A. Henry*, 4395!); SZECHUEN: Chungking (*Bourne*!); KWANGTUNG: Macao (*Callery*, 295!), Lofaushan, without collector's name; HONGKONG (*Champion*, 288! *Wilford*, 280! *Wright*, 509! *Hance*, 765! *Lamont*, 738!). Mus. Brit.; Herb. Kew.

1. **Acorus Calamus,** *Linn. Sp. Pl.* ed. 1, p. 324; *Schott, Prodr. Aroid.* p. 578; *Engl. in DC. Monogr. Phan.* ii. p. 216; *Bunge, Enum. Pl. Chin. Bor.* p. 67; *Debeaux, Fl. Shangh.* p. 62; *Franch. Pl. David.* i. p. 313; *Hook. f. Fl. Brit. Ind.* vi. p. 555.

Acorus cochinchinensis, *Schott, Prodr. Aroid.* p. 580.

Orontium cochinchinense, *Lour. Fl. Cochinch.* p. 208.

KIANGSU: Shanghai (*Maingay*, 405!); HUPEH: Ichang, Nanto and mountains to northward (*A. Henry*, 4506!). Mus. Brit.; Herb. Kew.

North Temperate zone.

2. **Acorus gramineus,** *Ait. Hort. Kew.* i. p. 474; *Schott, Prodr. Aroid.* p. 580; *Engl. in DC. Monogr. Phan.* ii. p. 218; *Hook. f. Fl. Brit. Ind.* vi. p. 556; *Diels, in Engl. Jahrb.* xxix. (1900) p. 234.

Acorus Calamus, *Lour. Fl. Cochinch.* p. 208; *Benth. Fl. Hongk.* p. 345, non *Linn.*

Acorus terrestris, *Spreng. Syst. Veg.* ii. p. 118; *Schultes, Syst. Veg.* vii. p. 174; *Schott, Prodr. Aroid.* p. 579.

Acorus Tatarinowii, *Schott, in Oest. Bot. Zeitschr.* ix. (1859) p. 101.

Acorus Calamus, var. terrestris, *Engl. in DC. Monogr. Phan.* ii. p. 217.

CHEKIANG: Tienta Mountain, 3000 ft. (*Faber*, 87!); KIANGSI: Kiukiang (*Shearer*! *Forbes*, 59!); HUPEH: Ichang (*A. Henry* 727, 3370, 7857!), Nanto (*A. Henry*, 1904!), Changyang (*A. Henry*, 5246!); SZECHUEN: Nanchuan (*Bock von Rosthorn*, 1253, ex *Engler*), Mount Omei, 2500 ft. (*Faber*, 1193!), near Tachienlu (*Pratt*, 792!); KWANGTUNG: West River, Canton (*Lamont*, 739!); HONGKONG (*Urquhart*, 112! *Eyre*! *Wright*, 510! *Wilford*, 314! *Lamont*, 739! *Hance*, 973!); HAINAN (*Swinhoe*!). Mus. Brit.; Herb. Kew.

Japan, Tonquin.

This is the common *Acorus* of China, and is very variable in size. The larger forms have been confused with *A. Calamus*, Linn., from which they are readily distinguished by the absence of a distinctly thickened midrib to the leaves and spathe, a more slender spadix, and a shorter spathe. *A. Calamus* seems to be rare in China, as I have seen but two specimens. Owing to the confusion of names, only specimens actually seen are here quoted, except one on the authority of Dr. Engler.

154. LEMNACEÆ.

(By C. H. WRIGHT, A.L.S.)

1. **Lemna minor**, *Linn. Sp. Pl.* ed. 1, p. 970; *Lour. Fl. Cochinch.* p. 550; *Hance, in Journ. Linn. Soc., Bot.* xiii. (1872) p. 129; *Bretschneider, Early Res.* p. 181; *Hegelmaier, Die Lemnaceen*, p. 142; *Debeaux, Fl. Shangh.* p. 62; *Franch. et Savat. Enum. Pl. Jap.* ii. p. 12; *Hook. f. Fl. Brit. Ind.* vi. p. 556.

CHIHLI: Peking (*Bretschneider*, 777 !); KIANGSU: Shanghai (ex *Debeaux*); CHEKIANG (ex *Debeaux*); HONGKONG (*Hance*). Herb. Kew.

"Frequent in S. China. Common also in N. China" (*Bretschneider*).

Temperate and warmer regions of the world.

2. **Lemna paucicostata**, *Hegelmaier, Die Lemnaceen*, p. 139; *Mart. Fl. Bras.* iii. II. p. 20, t. i. fig. 5; *Franch. et Savat. Enum. Pl. Jap.* ii. p. 12; *Hook. f. Fl. Brit. Ind.* vi. p. 556.

LUCHU ARCHIPELAGO (*Wright*, 324 !). Herb. Kew.

Throughout the tropics.

This has been confused by many authors with *Lemna minor*, Linn., from which it differs in its less symmetrical frond and erect ovule.

3. **Lemna polyrhiza**, *Linn. Sp. Pl.* ed. 1, p. 970; *Flor. Dan.* t. 1589; *Syme, Engl. Bot.* ed. 3, t. 1397; *Kurz, in Journ. Linn. Soc.* ix. p. 267; *Hook. f. Fl. Brit. Ind.* vi. p. 557.

Spirodela polyrrhiza, *Schleid. in Linnæa*, xiii. p. 392, *et in Ann. Sci. Nat.* 2^me^ sér. xiii. p. 148; *Maxim. Prim. Fl. Amur.* p. 266; *Mart. Flor. Bras.* iii. II. p. 21, t. i. fig. 6; *Hegelmaier, Die Lemnaceen*, p. 151, t. xiii. figs. 10–16, tt. xiv.–xv.; *Franch. et Savat. Enum. Pl. Jap.* ii. p. 13.

Lemna bannatica, *Waldst. et Kit.* ex *Schleid. in Linnæa,* xiii. p. 392.
Lemna orbiculata, *Roxb. Fl. Ind.* iii. p. 565.
Lemna major, *Griff. Notulæ,* iii. p. 216.

KIANGSU: Shanghai (*Maingay,* 674, ex *Kurz*); LUCHU ARCHIPELAGO (*Wright,* 325 !). Herb. Kew.

Warm and temperate regions of the Old World, Northern United States to Venezuela and Cuba.

155. ALISMACEÆ.

(By C. H. WRIGHT, A.L.S.)

1. **Alisma Plantago,** *Linn. Sp. Pl.* ed. 1, p. 342; *Kunth, Enum. Pl.* iii. p. 148; *Reichb. Ic. Fl. Germ.* vii. t. 57; *Franch. et Savat. Enum. Pl. Jap.* ii. p. 16; *Franch. in Mém. Soc. Sc. Nat. Cherbourg,* xxiv. (1884) p. 256; *Hook. f. Fl. Brit. Ind.* vi. p. 559; *Maxim. Ind. Fl. Pek. in Prim. Fl. Amur.* p. 477; *Kurz, in Journ. Bot.* xi. (1873) p. 193; *Micheli, in DC. Monogr. Phan.* iii. p. 32.

Alisma flava et A. cordifolia, *Thunb. Fl. Jap.* p. 153, non *Linn.*

Var. **latifolium,** *Kunth, Enum. Pl.* iii. p. 148; *Gren. et Godr. Fl. France,* iii. p. 165; *Franch. Pl. David.* i. p. 134.

CHIHLI: Jehol (*David,* 2009, ex *Franchet*); SHINGKING (*Ross,* 39 !); SHANTUNG: Chefoo (*Stuhlmann* ! *Forbes* ! *Fauvel* ex *Franchet*). Mus. Brit.; Herb. Kew.

Var. **angustifolium,** *Kunth, Enum. Pl.* iii. p. 148.

HUPEH: Patung (*A. Henry,* 1852, 5117 !); KWANGTUNG (*Ford,* 278 !); COREAN ARCHIPELAGO: Long Reach (*Oldham,* 1062 !). Mus. Brit.; Herb. Kew.

Widely distributed through the north and south temperate regions.

This species is also stated by Kurz to have been collected by Anderson in Yunnan, but without any indication of which variety is intended.

1. **Lophotocarpus guyanensis,** *Durand & Schinz, Conspect. Fl. Afr.* v. p. 487; *C. H. Wright, in Dyer, Fl. Trop. Afr* viii. p. 210.

Sagittaria guyanensis, *Humb., Bonpl. et Kunth, Nov. Gen. et Spec.* i. p. 250; *Kunth, Enum. Pl.* iii. p. 161; *Hook. f. Fl. Brit. Ind.* vi. p. 561.

Sagittaria cordifolia, *Roxb. Fl. Ind.* iii. p. 647; *Kunth, Enum. Pl.* iii. p. 161; *Benth. Fl. Hongk.* p. 346.

Echinodorus guianensis, *Griseb. Fl. Brit. W. Ind.* p. 505.

Lophiocarpus guyanensis, *Micheli, in DC. Monogr. Phan.* iii. p. 62.

HONGKONG (*Harland* ex *Bentham*).

Tropical Asia, Africa, Madagascar, and America.

1. **Sagittaria sagittifolia,** *Linn. Sp. Pl.* ed. 1, p. 993; *Kunth, Enum. Pl.* iii. p. 156; *Red. Lil.* tt. 279, 280; *Lour. Fl. Cochinch.* p. 570; *Kurz, in Journ. Bot.* xi. (1873) p. 193; *Franch. Pl. David.* i. p. 314; *Franch. et Savat. Enum. Pl. Jap.* ii. p. 16; *Franch. in Mém. Soc. Sc. Nat. Cherbourg*, XXIV. (1884) p. 256: *Micheli, in DC. Monogr. Phan.* iii. p. 66; *Hook. f. Fl. Brit. Ind.* vi. p. 561.

Sagittaria sagittata et S. obtusa, *Thunb. Fl. Jap.* p. 242.

Sagittaria chinensis, *Sims, Bot. Mag.* t. 1631.

Sagittaria macrophylla, *Bunge, in Mém. Sav. Étrang. Acad. Pétersb.* ii. (1834) p. 137; *Maxim. Ind. Fl. Pek. in Prim. Fl. Amur.* p. 477.

Sagittaria sagittifolia, var. diversifolia, *Micheli, in DC. Monogr. Phan.* iii. p. 67.

Sagittaria sagittifolia, var. longiloba, *Turcz. in Bull. Soc. Nat. Mosc.* xxvii. (1854) II. p. 57; *Regel, Fl. Ussur.* p. 154; *Miq. Ann. Mus. Bot. Lugd.-Bat.* ii. p. 138, iii. p. 192; *Debeaux, Fl. Shangh.* p. 61.

CHIHLI: Peking (*Bretschneider*, 1972, in hb. *Forbes*!), Jehol (*David*, 1917, ex *Franchet*); SHINGKING (*Ross*, 38!); KIANGSU: Shanghai and Woosong (ex *Debeaux*); KIANGSI (*Staunton*!), Kiukiang (*Shearer*! *Forbes*!): FORMOSA (*Oldham*, 368, 640! *Wilford*, 500!), Takow (*Playfair*, 182!); HUPEH: Ichang (*A. Henry*, 105, 300, 2324!), South Patung (*A. Henry*, 7387!), Nanto (*A. Henry*, 2664!); YUNNAN (*Anderson*!); KWANGTUNG: Canton (*Seemann*! *Hance*, 5344!), Macao? (*Lay*!); HAINAN (*A. Henry*, 8064, 8390!); COREA: Port Chusan (*Wilford*, 903!). Mus. Brit.; Herb. Kew.

Widely dispersed in Europe and Temperate Asia.

The leaves of this species vary greatly in shape, the one extreme being represented by Bretschneider's Peking specimen, which has the lobes 7 in. long by 5½ in. broad, the other by Wilford's no. 500 from Formosa with lobes 3½ in. long but only ¼ in. broad. These two are connected by numerous intermediate forms. As the difference of leaf-form does not appear to be correlated with any other characters, it is impossible to define the various forms included rightly by Micheli under his variety *diversifolia*. The form known as *S. chinensis*, Sims (*S. macrophylla*, Bunge), is stated by Hance to be cultivated near Canton for the sake of its edible tubers.

Var. **oligocarpa**, *Micheli, in DC. Monogr. Phan.* iii. p. 68.

Sagittaria pygmæa, *Miq. in Ann. Mus. Bot. Lugd.-Bat.* ii. p. 138.

Sagittaria sagittifolia, *L.?, Hook. et Arn. Bot. Beechey's Voy.* p. 220.

CHINA (*Beechey*!); KIANGSI: Kiukiang (*Forbes*, 127, 188, 201, 1040!); HUPEH: Ichang (*A. Henry*, 4299!), Nanto (*A. Henry*, 1919!); SZECHUEN?, Suifu rice-fields (*Faber*, 975!); KWANGTUNG (*Ford*, 334!). Mus. Brit.; Herb. Kew.

Japan.

[*Sagittaria trifolia*, Linn. Sp. Pl. ed. 1, p. 993, said to be from China, is founded upon the figure in Petiver's 'Gazophylacium,' t. 19. fig. 5, and is referred by Micheli (in DC. Monogr. Phan. iii. p. 67) to *Sagittaria sagittifolia*, var. *diversifolia*, Micheli. It must, however, be regarded as a very doubtful plant. The leaves are represented with very narrow lobes.]

1. **Butomus umbellatus**, *Linn. Sp. Pl.* ed. 1, p. 372; *Kunth, Enum. Pl.* iii. p. 164; *Maxim. Ind. Fl. Pek. in Prim. Fl. Amur.* p. 477; *Reichb. Ic. Fl. Germ.* vii. t. 58; *Boiss. Fl. Orient.* v. p. 12; *Franch. Pl. David.* i. p. 315; *Micheli, in DC. Monogr. Phan.* iii. p. 85; *Hook. f. Fl. Brit. Ind.* vi. p. 562.

Butomus junceus, *Turcz. in Bull. Soc. Nat. Mosc.* (1837) no. vii. p. 157 (nomen), et xxvii. (1854) II. p. 60.

Butomus umbellatus, var. minor, *Ledeb. Fl. Ross.* iv. p. 44.

Butomus umbellatus, var. junceus, *Turcz. in Bull. Soc. Nat. Mosc.* xxvii. (1854) II. p. 60; *Micheli, in DC. Monogr. Phan.* iii. p. 86.

CHIHLI: Peking (*Wawra* ex *Micheli*), mountains west of Peking (*Bretschneider* in hb. *Forbes*, 1971!), Jehol (*David*, 1955!). Mus. Brit.; Herb. Kew.

Europe, Northern and Western Asia to the Punjab and Kashmir.

[Under *Damasonium indicum*, Willd., in Bot. Mag. t. 1201, it is stated that "Sir Joseph Banks has different species brought from China by Sir Geo. Staunton." I have not found the specimens referred to.]

156. NAIADACEÆ.

(By C. H. Wright, A.L.S.)

1. **Triglochin maritimum,** *Linn. Sp. Pl.* ed. 1, p. 339; *Act. Stockh.* (1742) p. 147, t. 6. figs. 4–5; *Lam. Illustr.* t. 270. fig. 2; *Fl. Dan.* t. 306; *Kunth, Enum. Pl.* iii. p. 145; *Maxim. Ind. Fl. Mongol. in Prim. Fl. Amur.* p. 485; *Franch. et Savat. Enum. Pl. Jap.* ii. p. 17; *Miq. Ann. Mus. Bot. Lugd.-Bat.* ii. p. 139; *Micheli, in DC. Monogr. Phan.* iii. p. 105; *Hook. f. Fl. Brit. Ind.* vi. p. 563.

Ornithogalum japonicum, *Buerger, ex Miq. in Ann. Mus. Bot. Lugd.-Bat.* ii. p. 139.

CHIHLI: Peking (ex *Maximowicz*); KIANGSI: Nanshan near Sudshou (*Martin* !); KANSUH: Mudskik Mountains (*Przewalski* !). Herb. Kew.

Europe, Temperate Asia, North America, Patagonia.

2. **Triglochin palustre**, *Linn. Sp. Pl.* ed. 1, p. 338; *Kunth, Enum. Pl.* iii. p. 143; *Lam. Illustr.* t. 270. fig. 1; *Fl. Dan.* t. 490; *Maxim. Ind. Fl. Mongol. in Prim. Fl. Amur.* p. 485; *Micheli, in DC. Monogr. Phan.* iii. p. 98; *Hook. f. Fl. Brit. Ind.* vi. p. 563.

CHIHLI: near Peking (*Wawra*, 1018, ex *Micheli*); SHINGKING: Talienwhan (*Swinhoe* !); SHANTUNG: Chefoo (*Forbes*, 406 !); SZECHUEN: Tongolo (*Soulié*, 250 !), near Sulphur springs, Haiaz (*Faber*, 1544 !). Mus. Brit.; Herb. Kew.

Europe, Temperate Asia, North America, Temperate South America.

It is noteworthy in the distribution of this genus that five species are indigenous in Australia and four of them are endemic.

1. **Aponogeton monostachyon,** *Linn. fil. Suppl.* p. 214; *Roxb. Pl. Corom.* i. p. 58, t. 81; *Andr. Bot. Rep.* t. 406; *Thwaites, Enum. Pl. Zeyl.* p. 333; *Benth. Fl. Austral.* vii. p. 188; *Hance, in Journ. Bot.* xvi. (1878) p. 111; *Hook. f. Fl. Brit. Ind.* vi. p. 564.

Aponogeton monostachys, *Edgew. in Hook. Lond. Journ. Bot.* iii. (1844) p. 404, t. 17.

Spathium monostachyon, *Edgew. in Calc. Journ. Nat. Hist.* iii. (1843) p. 533, t. 16.

Potamogeton indicus, *Roth, ex Roem. et Schultes, Syst. Pl.* iii. p. 516.

Saururus natans, *Linn. Mant.* alt. p. 227; (*Rheede, Hort. Malab.* xi. p. 31, t. 15).

KWANGTUNG: Pools near Canton (*Sampson*, 1268, 15588 !) Herb. Kew.

Tropical Asia and Australia.

2. **Aponogeton** sp.

COREA (*Faurie* !).

POTAMOGETON.

(BY ARTHUR BENNETT, F.L.S.*)

1. **Potamogeton angustifolius,** *Bercht. et Presl, Rostlin,* i. p. 19.

Potamogeton Zizii, *Roth, Enum. Pl. Germ.* i. sect. i. p. 531.

Potamogeton heterophyllus, var. latifolius, *Mert. et Koch, Deutsch. Fl.* i. p. 845.

YUNNAN: Plain of Tali (*Delavay* !).

Europe, Asia, Africa, and America.

2. **Potamogeton crispus,** *Linn. Sp. Pl.* ed. 1, p. 126; *Kunth, Enum. Pl.* iii. p. 133; *Reichb. Ic. Fl. Germ.* vii. t. 29. fig. 50; *Franch. et Savat. Enum. Pl. Jap.* ii. p. 15; *Hook. f. Fl. Brit. Ind.* vi. p. 566.

CHIHLI (*Potanin* !), near Peking (*Bretschneider*, 893 !); KIANGSU: Shanghai (*Maingay*, 422 ! *Faber*, 2 !); YUNNAN (*Delavay*, 2500 !); COREA (*Faurie* !); LUCHU ARCHIPELAGO (*Wright*, 323 !). Mus. Brit.; Herb. Kew.

Var. **serratus,** *S. F. Gray, Nat. Arr. Brit. Pl.* ii. p. 34.

SHANGHAI (*Lamprey* !).

North and south temperate and subtropical regions.

The Corean plant is a narrow-leaved form.

3. **Potamogeton cristatus,** *Regel & Maack, Tent. Fl. Ussur.* p. 153, t. 10. figs. 3–6.

Potamogeton hybridus, *Makino, Ill. Fl. Jap.* i. no. 9, p. 2, t. 55, non *Michaux*; *Arth. Benn. in Journ. Bot.* xxx. (1892) p. 229.

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* Mr. Bennett had the Paris, St. Petersburg, and other collections of this genus on loan; hence this enumeration includes certain species and varieties not represented either at the British Museum or at Kew by Chinese specimens.—*W. B. H.*

Kiukiang (*Maries*!); Hupeh: Ichang (*A. Henry*, 2377!). Mus. Brit.; Herb. Kew.

Ussuri, Mandshuria, and Japan.

4. **Potamogeton Delavayi,** *Arth. Benn. in Journ. Bot.* xxx. (1892) p. 228.

Yunnan (*Delavay*, 4750!).

5. **Potamogeton Gaudichaudii,** *Cham. et Schlecht. in Linnæa,* ii. (1827) pp. 177 et 199.

Potamogeton mucronatus, *Presl, Epim. Bot.* p. 245; *Hook. f. Fl. Brit. Ind.* vi. p. 567.

Potamogeton malaiana, *Miq. Ill. Fl. Arch. Ind.* p. 46.

Potamogeton japonicus, *Franch. & Savat. Enum. Pl. Jap.* ii. p. 15.

Potamogeton Wrightii, *Morong, in Bull. Torrey Bot. Club,* xiii. (1886) p. 158.

Potamogeton lucens, *Vidal, Phan. Cuming. Philipp.* p. 155, non *Linn.*

Chihli: Peking (*Bretschneider*, 904!); Formosa: Takow (*A. Henry*, 1203!), Bankingsing (*A. Henry*, 1203 A!); Yunnan: Lac de Koumpo (*Delavay*, 2727!); Kwangtung: Canton (*Graves* in herb. *Hance*, 22226!); Corea (*Faurie*!); Luchu Archipelago (*Wright*, 320!). Mus. Brit.; Herb. Kew.

India, Japan, Philippine Islands, Borneo, and Ladrone Islands.

This species was distributed by Maximowicz under the name of *Potamogeton tretocarpus*. Oldham's no. 635 from Formosa may be the young state of this species.

6. **Potamogeton Hillii,** *Morong, in Bot. Gaz.* vi. (1881) p. 290, *et in Mem. Torrey Bot. Club,* iii. (1893) pt. ii. p. 38, t. 46?

Hupeh: Ichang (*A. Henry*, 4375!). Herb. Kew.

North-eastern United States.

Dr. Henry's specimen is destitute of fruit, hence it cannot be positively asserted to belong to this species, although in all other characters it agrees.

7. **Potamogeton javanicus,** *Hassk. in Verh. Natuurk. Ver. Nederl. Ind.* i. (1856) p. 26; *Hook. f. Fl. Brit. Ind.* vi. p. 566.

Potamogeton tenuicaulis, *F. Muell. Fragm.* i. pp. 90, 244.

Potamogeton parvifolius, *Buchenau, in Abhandl. Natur. Ver. Bremen,* vii. (1880) p. 32.

Potamogeton hybridus, *Hook. f. et Thoms.* ex *Hook. f. Fl. Brit. Ind.* vi. p. 566, non *Michaux.*

Potamogeton heterophyllus, *Buch.-Ham. in Wall. Cat.* no. 5181.

SHANGTUNG (*Maingay*, 170 !); FORMOSA: Tamsui (*Oldham*, 381, 638 !); COREA: Port Chusan (*Wilford*, 968 !). Mus. Brit.; Herb. Kew.

Japan, Tropical Asia, Africa, Madagascar, and Australia.

8. **Potamogeton limosellifolius**, *Maxim.* ex *Korshinsky, in Act. Hort. Petrop.* xii. (1892) p. 393.

COREA (*Faurie* !); LUCHU ARCHIPELAGO (*Wright* ex *Korshinsky*).

Amur.

This may be a small, delicate variety or subspecies of *P. Miduhikimo*, Makino (Ill. Fl. Jap. t. 54).

9. **Potamogeton lucens**, *Linn. Sp. Pl.* ed. 1, p. 126; *Kunth, Enum.* iii. p. 132; *Hook. f. Fl. Brit. Ind.* vi. p. 567.

CHINA, without precise locality (*Korolkow* and *Krause* !). Mus. Brit.

Dispersed over all the continents, but rare in Australia.

10. **Potamogeton natans**, *Linn. Sp. Pl.* ed. 1, p. 126; *Kunth, Enum. Pl.* iii. p. 127; *Hook. f. Fl. Brit. Ind.* vi. p. 565.

SHINGKING (*James* !). Herb. Kew.

Very widely diffused, especially in temperate regions.

Abbé David's no. 1949 enumerated by Franchet (Pl. David. i. p. 315) as *P. natans*, Linn., is not that species, and may belong to either *P. Tepperi*, A. Benn., or *P. tricarinatus*, F. Muell. et A. Benn., but in the absence of fruit it cannot be determined with certainty.

11. **Potamogeton oxyphyllus**, *Miq. in Ann. Mus. Bot. Lugd.-Bat.* iii. p. 161.

COREA (*Faurie* !).

Japan.

12. **Potamogeton pectinatus**, *Linn. Sp. Pl.* ed. 1, p. 127; *Kunth, Enum.* iii. p. 137; *Bunge, Enum. Pl. Chin. Bor.* p. 68; *Hook. f. Fl. Brit. Ind.* vi. p. 567.

NORTH CHINA: Tanschan (*Bunge* !); CHIHLI (*Potanin* !); KANSUH (*Potanin* !); COREA (*Faurie* !). Herb. Kew.

Common in the north and south temperate regions; less frequent in the tropics.

13. **Potamogeton perfoliatus**, *Linn. Sp. Pl.* ed. 1, p. 126; *Kunth, Enum.* iii. p. 133; *Hook. f. Fl. Brit. Ind.* vi. p. 566.

CHIHLI: near Peking (*Bretschneider*, 779!); CHINA, without precise locality (*Korolkow & Krause*!). Herb. Kew.

North temperate regions and Australia.

14. **Potamogeton polygonifolius**, *Pourr. in Mém. Acad. Toulouse*, iii. (1788) p. 325; *Franchet, in Mém. Soc. Sc. Nat. Cherbourg*, xxiv. (1884) p. 261.

CHIHLI: Peking (*Bretschneider*!); SHANTUNG: Chefoo (*Fauvel* ex *Franchet*); KANSUH (*Potanin*!).

Europe, including Britain.

15. **Potamogeton pusillus**, *Linn. Sp. Pl.* ed. i. p. 127; *Kunth, Enum. Pl.* iii. p. 136; *Franch. Pl. David.* i. p. 315; *Hook. f. Fl. Brit. Ind.* vi. p. 567.

CHIHLI: Jehol (*David*, 1916!); KANSUH (*Potanin*!), Tangut (*Przewalski*!); COREA (*Faurie*!). Herb. Kew.

Widely distributed, but absent from Australia.

16. **Potamogeton Robbinsii**, *Oakes*, var. **japonicus**, *Arth. Benn. in Bull. Herb. Boiss.* iv. (1896) p. 549.

Potamogeton serrulatus, *Regel et Maack, in Regel, Tent. Fl. Ussur.* p. 153.

COREA (*Faurie*!).

Japan.

17. **Potamogeton Tepperi**, *Arth. Benn. in Journ. Bot.* xxv. (1887) p. 178.

CHIHLI: Peking (*Bretschneider*, 778!); FORMOSA (*Oldham*, 636!); HUPEH: Ichang (*A. Henry*, 2366, 3603!); SZECHUEN: Hokiang (*Faber*, 314!); COREAN ARCHIPELAGO: Long Reach (*Oldham*, 824!). Mus. Brit.; Herb. Kew.

Siberia, India, Japan, and Australia.

Specimens from Yunnan, collected by Delavay, probably belong here.

18. **Potamogeton** sp.

YUNNAN (*Delavay*!).

This belongs to the group of *P. polygonifolius*, Pourr., but the material is insufficient for determination.

1. **Ruppia maritima**, *Linn. Sp. Pl.* p. 127; *Willd. Sp. Pl.* i. p. 717; *Reichb. Pl. Crit.* ii. p. 66, t. 174. fig. 307; *Kunth, Enum. Pl.* iii. p. 123; *Benth. Fl. Austral.* vii. p. 174; *Mart. Fl. Bras.* iii. III. p. 699.

Ruppia rostellata, *Koch, in Reichb. Ic. Crit.* ii. p. 66, t. 174. fig. 306; *Hook. f. Fl. Brit. Ind.* vi. p. 568; *Syme, Engl. Bot.* ix. t. 928.

Ruppia sp., *Griff. Notul.* iii. p. 196; *Icon.* tt. 257–9.

FORMOSA: Takow (*A. Henry*, 1099!); COREAN ARCHIPELAGO (*Oldham*, 825!), Port Hamilton (*Oldham*, 1003!). Herb. Kew.

All temperate and subtropical regions.

1. **Zannichellia pedicellata**, *Buch.-Ham. in Wall. Cat.* n. 5185; *Fries, Mantissa*, iii. p. 133; *Syme, Engl. Bot.* ed. 3, ix. t. 926.

Zannichellia palustris, *Kunth, Enum. Pl.* iii. p. 124, *partim.*

Zannichellia pedunculata, *Reichb. Ic. Pl. Crit.* viii. p. 24, t. 760; *Ic. Fl. Germ.* vii. t. 16. fig. 21.

Zannichellia palustris, subsp. pedicellata, *Hook. f. Fl. Brit. Ind.* vi. p. 568.

KIANGSU (*Faber*, 1!); LUCHU ARCHIPELAGO (*Wright*, 326!). Herb. Kew.

Cosmopolitan, excluding Australia.

1. **Zostera marina**, *Linn. Sp. Pl.* ed. 1, p. 968; *Thunb. Fl. Jap.* p. 232; *Fl. Dan.* t. 15; *Kunth, Enum. Pl.* iii. p. 116; *Maxim. Prim. Fl. Amur.* p. 266; *Franch. in Mém. Soc. Sc. Nat. Cherbourg*, xxiv. (1884) p. 261; *Syme, Engl. Bot.* ed. 3, ix. t. 929; *Debeaux, Fl. Tchef.* p. 132.

SHANTUNG: Chefoo (ex *Debeaux & Franchet*).

Europe, Orient, Japan, and North America.

1. **Najas graminea**, *Delile, Fl. Egypte*, p. 282; *Kunth, Enum. Pl.* iii. p. 115; *A. Br. in Seem. Journ. Bot.* ii. (1864) p. 278; *Hook. f. Fl. Brit. Ind.* vi. p. 569; *K. Schum. in Mart. Fl. Bras.* iii. III. p. 730, t. 124. fig. 2; *Rendle, in Trans. Linn. Soc.* ser. 2, *Bot.* v. (1899) p. 424, t. 42. figg. 192–201.

Najas minor, *Benth. Fl. Hongk.* p. 345, non *Allioni.*

HONGKONG (*Wright*, 511!). Mus. Brit.; Herb. Kew.

Warmer parts of the Old World.

2. **Najas marina,** *Linn. Sp. Pl.* ed. 1, p. 1015.
Najas major, *Allioni, Fl. Pedem.* ii. p. 221.

Forma α, *Rendle, in Trans. Linn. Soc.* ser. 2, *Bot.* v. (1899) p. 392 ?

CHIHLI: Peking (*Bretschneider,* 892 !); COREA (*Faurie* !). Herb. Kew.

Forma β, *Rendle, in Trans. Linn. Soc.* ser. 2, *Bot.* v. (1899) p. 392.

KIANGSU: Kiangnang (*Staunton* !). Mus. Brit.

Europe, India, Japan, North America, Australia.

157. ERIOCAULACEÆ.

(By C. H. WRIGHT, A.L.S.)

1. **Eriocaulon alpestre,** *Hook. f. et Thoms.* ex *Koern. in Miq. Ann. Mus. Bot. Lugd.-Bat.* iii. p. 163; *Franch. et Savat. Enum. Pl. Jap.* ii. p. 99; *Maxim. Diagn. Pl. Asiat.* viii. p. 24; *Hook. f. Fl. Brit. Ind.* vi. p. 578; *Ruhland, in Engl. Pflanzenr., Eriocaul.* p. 95.

CHEKIANG: Ningpo Mountains (*Faber* ex *Ruhland*).

Himalayas.

2. **Eriocaulon australe,** *R. Br. Prodr.* p. 254; *Steud. Syn. Pl. Glum.* ii. p. 273; *Koern. in Linnæa,* xxvii. (1854) p. 686; *Kunth, Enum. Pl.* iii. p. 569; *Benth. Fl. Austral.* vii. p. 192; *Benth. Fl. Hongk.* p. 382; *Maxim. Diagn. Pl. Asiat.* viii. p. 27; *Ruhland, in Engl. Pflanzenr., Eriocaul.* p. 66.

KWANGTUNG: Canton, White Cloud Hills (*Sampson,* 363 !), Macao (*Vachell* !); HONGKONG (*Wright,* 549 ! *Hance,* 490 !), Mount Victoria (*Lamont,* 818 !). Mus. Brit.; Herb. Kew.

Australia: Queensland and New South Wales.

3. **Eriocaulon Buergerianum,** *Koern. in Miq. Ann. Mus. Bot. Lugd.-Bat.* iii. p. 163; *Franch. et Savat. Enum. Pl. Jap.* ii. p. 100; *Maxim. Diagn. Pl. Asiat.* viii. p. 20; *Ruhland, in Engl. Pflanzenr., Eriocaul.* p. 94.

KIANGSI: Kiukiang (*Shearer* ! *Forbes,* 191 !); HUPEH: Ichang (*A. Henry,* 37, 2767 !), Nanto (*A. Henry,* 4424 !); KWANGTUNG: Lofaushan (*Ford,* 135 pro parte !). Mus. Brit.; Herb. Kew.

Japan.

The apical cilia of the female petals appear to be caducous.

4. **Eriocaulon cinereum,** *R. Br. Prodr.* p. 254; *Kunth, Enum.* iii. p. 571; *Steud. Syn. Pl. Glum.* ii. p. 273; *Koern. in Linnæa,* xxvii. (1854) p. 618; *Benth. Fl. Austral.* vii. p. 193; *Ruhland, in Engl. Pflanzenr., Eriocaul.* p. 111.

Eriocaulon heteranthum, *Benth. Fl. Hongk.* p. 382; *Maxim. Diagn. Pl. Asiat.* viii. p. 12.

HUPEH (*A. Henry,* 7786 partly!); KWANGTUNG: Canton (*Sampson*!), on way to Pakuan Mountains (*Hance,* 9666!); HONGKONG (*Wilford,* 293! *Wright,* 552! *Ford,* 74!). Mus. Brit.; Herb. Kew.

Australia.

5. **Eriocaulon cristatum,** *Mart. in Wall. Pl. As. Rar.* iii. p. 28, var. **brevicalyx,** *C. H. Wright.* ♀ petala sepalis duplo longiora.

Eriocaulon cristatum, *Benth. Fl. Hongk.* p. 382; *Ruhland, in Engl. Pflanzenr., Eriocaul.* p. 84, partly.

HONGKONG (*Hance,* 795! *Forbes,* 465!), near Aberdeen (*Sampson*!). Mus. Brit.; Herb. Kew.

The type occurs in Northern India and Japan.

6. **Eriocaulon echinulatum,** *Mart. in Wall. Pl. As. Rar.* iii. p. 29; *Kunth, Enum. Pl.* iii. p. 568; *Steud. Syn. Pl. Glum.* ii. p. 272; *Koern. in Linnæa,* xxvii. (1854) p. 619; *Hance, in Journ. Bot.* xvi. (1878) p. 14; *Hook. f. Fl. Brit. Ind.* vi. p. 579; *Maxim. Diagn. Pl. Nov. Asiat.* viii. p. 11; *Ruhland, in Engl. Pflanzenr., Eriocaul.* p. 106.

KWANGTUNG: Canton (*Sampson,* 958! [13453 in herb. *Hance*], *Ford,* 363!). Mus. Brit.; Herb. Kew.

Malay Peninsula.

7. **Eriocaulon Faberi,** *Ruhland, in Engl. Pflanzenr., Eriocaul.* p. 95.

CHEKIANG: Ningpo Mountains (*Faber* ex *Ruhland*).

8. **Eriocaulon Henryanum,** *Ruhland, in Engl. Pflanzenr., Eriocaul.* p. 86.

YUNNAN: Mengtze, 5000 ft. (*A. Henry,* 9443!). Herb. Kew.

9. **Eriocaulon luzulæfolium,** *Mart. in Wall. Pl. As. Rar.* iii. p. 28; *Cat.* n. 6071; *Kunth, Enum. Pl.* iii. p. 553; *Schnizl. Ic.* t. 46. fig. 2; *Steud. Syn. Pl. Glum.* ii. p. 270; *Koern. in*

Linnæa, xxvii. (1854) p. 636; *Hook. f. Fl. Brit. Ind.* vi. p. 582; *Ruhland, in Engl. Pflanzenr., Eriocaul.* p. 88.

CHEKIANG: Ningpo Mountains (*Faber*, 90!); FORMOSA: Takow (*A. Henry*, 1801!); KWANGTUNG: Canton, swamp at the foot of the White Cloud Hills (*Sampson*, 127, 255, 7423 in herb. *Hance*!). Herb. Kew.

Throughout India and Ceylon.

10. **Eriocaulon Miquelianum**, *Koern. in Miq. Ann. Mus. Bot. Lugd.-Bat.* iii. p. 162; *Franch. & Savat. Enum. Pl. Jap.* ii. p. 99; *Maxim. Diagn. Pl. Asiat.* viii. p. 17; *Ruhland, in Engl. Pflanzenr., Eriocaul.* p. 92.

CHEKIANG: Tientai Mt. (*Faber*, 88!), Ningpo Mountains (*Faber*!). Herb. Kew.

Japan.

11. **Eriocaulon nipponicum**, *Maxim. Diagn. Pl. Nov. Asiat.* viii. p. 9; *Ruhland, in Engl Pflanzenr., Eriocaul.* p. 38.

SHANTUNG: Chefoo Mts. (*Faber*, 89! 205, ex *Ruhland*). Herb. Kew.

12. **Eriocaulon officinale**, *Koern. in Mart. Fl. Bras.* iii. I. p. 480 in obs.; *Ruhland, in Engl. Pflanzenr., Eriocaul.* p. 117.

CHINA (ex *Koernicke*).

13. **Eriocaulon setaceum**, *Linn. Sp. Pl.* ed. 1, p. 87; *Kunth, Enum. Pl.* iii. p. 550; *Steud. Syn. Pl. Glum.* ii. p. 270; *Benth. Fl. Hongk.* p. 383; *Thwaites, Enum. Pl. Zeyl.* p. 341; *Maxim. Diagn. Pl. Asiat.* viii. p. 13; *Hook. f. Fl. Brit. Ind.* vi. p. 572; *Ruhland, in Engl. Pflanzenr., Eriocaul.* p. 89, excl. syn.

Eriocaulon intermedium, *Koern. in Linnæa*, xxvii. (1854) p. 601.

KWANGTUNG: Canton (*Sampson*!); HONGKONG (*Wright*, 553!). Mus. Brit.; Herb. Kew.

Malabar, Ceylon.

This species is stated by Kurz (Journ. Bot. xi. 1873, p. 193) to have been collected in Yunnan by J. Anderson, but I have seen no specimens to confirm this.

14. **Eriocaulon Sieboldianum**, *Sieb. & Zucc. ex Steud. Syn. Pl. Glum.* ii. p. 272; *Hook. f. Fl. Brit. Ind.* vi. p. 577; *Ruhland, in Engl. Pflanzenr., Eriocaul.* p. 111, excl. syn.

Eriocaulon sexangulare, var. β, *Koern. in Linnæa,* xxvii. (1854) p. 613.

Eriocaulon sexangulare, *Miq. in Ann. Mus. Bot. Lugd.-Bat.* iii. p. 162, pro parte; *Franch. et Savat. Enum. Pl. Jap.* ii. p. 99, pro parte; *Hance, in Journ. Linn. Soc., Bot.* xiii. (1872) p. 130; *Maxim. Diagn. Pl. Asiat.* viii. p. 10; non *Linn.*

KWANGTUNG: Canton (*Sampson & Hance,* 9666!), Kowlung (*Sampson,* 7977! *Lamont*!). Mus. Brit.; Herb. Kew.

India, Tonkin, Philippines, Japan.

This species has the inner, or floral, bracts glabrous or nearly so, while those of *E. sexangulare,* Linn., are bearded and villous. I have not seen the specimen collected by David in Kiukiang and placed by Franchet (Pl. David. i. p. 316) under *E. sexangulare,* Linn.

15. **Eriocaulon sinicum,** *Miq. Journ. Bot. Néerl.* i. (1861) p. 87; *Ruhland, in Engl. Pflanzenr., Eriocaul.* p. 116.

KWANGTUNG: Fukwing (*Krone* ex *Miquel*).

16. **Eriocaulon truncatum,** *Buch.-Ham. in Wall. Pl. As. Rar.* iii. p. 29; *Wall. Cat.* n. 6076; *Kunth, Enum. Pl.* iii. p. 555; *Steud. Syn. Pl. Glum.* ii. p. 270; *Koern. in Linnæa,* xxvii. (1854) p. 631; *Benth. Fl. Hongk.* p. 382; *Maxim. Diagn. Pl. Asiat.* viii. p. 14; *Hook. f. Fl. Brit. Ind.* vi. p. 578; *Ruhland, in Engl. Pflanzenr., Eriocaul.* p. 107.

CHEKIANG: Ningpo Mountains (*Faber,* 19!); KWANGTUNG: Lofaushan (*Ford,* 135 pro parte!), Canton (*Sampson,* in hb. *Hance,* 7423!); HONGKONG (*Wilford,* 102! *Wright,* 551!), race-course (*Lamont,* 819!), Wongneichung (*Hance*!). Mus. Brit.; Herb. Kew.

India, Ceylon, and Malaya.

17. **Eriocaulon Wallichianum,** *Mart. in Wall. Pl. As. Rar.* iii. p. 26, t. 249; *Kunth, Enum. Pl.* iii. p. 564; *Steud. Syn. Pl. Glum.* ii. p. 271; *Koern. in Linnæa,* xxvii. (1854) p. 687; *Benth. Fl. Hongk.* p. 381; *Bretschn. Early Res.* p. 181; *Maxim. Diagn. Pl. Asiat.* viii. p. 27.

Eriocaulon longifolium, *Koern. in Linnæa,* xxvii. (1854) p. 690, ex parte, non *Nees*; *Benth. Fl. Hongk.* p. 382, in adnot.; *Maxim. Diagn. Pl. Asiat.* viii. p. 28; *Ruhland, in Engl. Pflanzenr., Eriocaul.* p. 41.

Eriocaulon cantoniensis, *Hook. et Arn. Bot. Beechey's Voyage,* p. 219.

Eriocaulon sexangulare, *Ruhland, in Engl. Pflanzenr., Eriocaul.* p. 110, pro parte.

CHINA (*Beechey* !); SOUTH CHINA (*Seemann*, 2400 !); KIANGSI: Kiukiang (*Forbes*, 1055 !); KWANGTUNG: Syngmun (*Meyen* !), Lofaushan (*Ford* !), Macao (*Gaudichaud*, 391 ! *Millett & Vachell* ex *Hooker & Arnott*, *Hance*, 10138 !): HONGKONG (*Hinds* ! *Fortune*, 120 ! *Wright*, 550 ! *Wilford*, 102 partly ! *Hance*, 540, 541 !), Happy Valley (*Lamont*, 817 !); HAINAN (*A. Henry*, 8073 !), Hoihau (*Bullock* !). Mus. Brit.; Herb. Kew.

India.

"*E. cantoniense*" is said to be used medicinally. See Kew Bulletin, 1898, p. 144.

18. **Eriocaulon Wightianum**, *Mart. in Wall. Pl. As. Rar.* iii. p. 28; *Wall. Cat.* n. 6067; *Kunth, Enum. Pl.* iii. p. 563; *Steud. Syn. Pl. Glum.* ii. p. 271; *Koern. in Linnæa*, xxvii. (1854) p. 658; *Hook. f. Fl. Brit. Ind.* vi. p. 576; *Ruhland, in Engl. Pflanzenr., Eriocaul.* p. 75.

KWANGTUNG: Pakhoi (*Playfair*, 113 !). Herb. Kew.

India and Ceylon.

158. CYPERACEÆ.

(By C. B. CLARKE, F.R.S., F.L.S.)

1. **Pycreus angulatus**, *Nees, in Linnæa*, ix. (1834) p. 283; *C. B. Clarke, in Hook. f. Fl. Brit. Ind.* vi. p. 593.

Cyperus unioloides, *R. Br. Prodr.* p. 216; *Kunth, Enum. Pl.* ii. p. 112.

Cyperus angulatus, *Nees, in Wight, Contrib.* p. 73; *Boeck. in Linnæa*, xxxv. (1867–8) p. 465.

YUNNAN: Nienkiatze, prope Tapintze (*Delavay*, 1750 !).

Scattered throughout the warmer regions of the whole world.

Var. β. **Wightii**, *C. B. Clarke, in Hook. f. Fl. Brit. Ind.* vi. p. 593.

Cyperus latispicatus, *Boeck. MS. in Wight, Exsicc.* n. 2874, in herb. *Berlin*, nec *Boeck. in Flora.*

YUNNAN: Tapintze (*Delavay*, 1748 !).

Madras.

2. **Pycreus Baccha**, *Nees, in Linnæa*, ix. (1834) p. 283, *et in Mart. Fl. Bras.* ii. pars I. p. 10 in obs. [Bacha].

Pycreus puncticulatus, *Nees, in Mart. Fl. Bras.* ii. pars I. p. 10 in obs.; *C. B. Clarke, in Hook. f. Fl. Brit. Ind.* vi. p. 593.

Cyperus puncticulatus, *Vahl, Enum.* ii. p. 348; *Kunth, Enum. Pl.* ii. p. 15; *Boeck. in Linnæa,* xxxv. (1867–8) p. 472, syn. Roxburghii deleto.

Cyperus Baccha, *Kunth, Enum. Pl.* ii. p. 115.

Cyperus inundatus, *Nees, in Wight, Contrib.* p. 76, non *Roxb.*

SHANTUNG: Chefoo (*Forbes* !).

Inhabits South India with Ceylon. This plant is, however, often passed by as the common *Cyperus pilosus*, Vahl, and not collected.

3. **Pycreus Delavayi**, *C. B. Clarke*, n. sp.

Culmi cæspitosi, 12–16 uncias longi, graciles, submonocephali. *Folia* 6–10 uncias longa, subulata. *Bracteæ* 2, ima usque ad 2 uncias longa, fere subulata. *Caput* 4–10-stachyum, laxum. *Spiculæ* subspicatæ, ½ unciam longæ, ⅛ unciam latæ, 12-nucigeræ, lucide atro-castaneæ, compressæ. *Glumæ* naviculares, ovatæ, vix acutæ, subdistantes, proventu paullo inflatæ. *Stylus* perbrevis; rami 2 longissimi. *Nux* lateraliter compressa, cum ½ parte glumæ vix æquilonga, ellipsoidea, nigrescens, levis; celluli extimi quadrato-hexagoni.

YUNNAN: Tali (*Delavay*, 413, in hb. *Paris.* !).

This species is near *P. globosus*, Reichb., var. *β. nilagirica*, but the spikelets are larger, with loosely-packed glumes. The plant more resembles *P. Cooperi*, C. B. Clarke (in Dyer, Fl. Cap. vii. p. 160).

4. **Pycreus globosus**, *Reichb. Fl. Excurs.* [1830–32], *Addend.* p. 140. n. 10.

Pycreus capillaris, *Nees, in Linnæa*, ix. (1834) p. 283; *C. B. Clarke, in Hook. f. Fl. Brit. Ind.* vi. p. 591; *Palibin, Fl. Koreæ,* iii. p. 20; *Diels, in Engl. Jahrb.* xxix. (1901) p. 227.

Cyperus globosus, *Allioni, Fl. Pedem. Auctuarium*, p. 49; *Reichb. Ic. Pl. Crit.* iii. p. 26, t. 229, syn. Beauv. excl., *et Ic. Fl. Germ.* viii. p. 32, t. 279. fig. 665; *Boeck. in Linnæa,* xxxv. (1867–8) p. 458; *Hance, in Journ. Bot.* xvii. (1879) p. 16; *Boeck. in Engl. Jahrb.* vi. (1885) p. 50.

Cyperus capillaris, *Roxb. Fl. Ind.* i. p. 198; *Hook. et Arn. Bot. Beechey's Voy.* p. 220.

Cyperus vulgaris, *Kunth, Enum. Pl.* ii. p. 4, syn. C. conglomerato aliisque exclusis; *Benth. Fl. Hongk.* p. 385; *Regel, Fl. Ussur.* p. 175; *Sieber, MS. ex Kunth.*

Cyperus complanatus, *Presl, in Oken, Isis,* xxi. (1882) p. 271; *Franch. Pl. David.* i. p. 316, *et in Mém. Soc. Sc. Nat. Cherb.* xxiv. (1884) p. 261; cf. *Maxim. in Bull. Soc. Nat. Mosc.* liv. pars I. (1879) p. 63.

CHIHLI: Peking (*David*!); SHANTUNG: Chefoo (*Fauvel*!); FORMOSA (*Siebold*!), Takow (*A. Henry,* 560!); HUPEH (*A. Henry,* 7520!); KWANGTUNG: Macao (*Vachel*!); LUCHU ARCHIPELAGO (*Doederlein*). Mus. Brit.; Herb. Kew.

The North China and Japanese examples are nearly as the Mediterranean *C. vulgaris,* Kunth (which is widely spread in Africa and India), with rather broad spikelets, chestnut marked with green; the Southern Chinese examples have the spikelets slenderer and browner, and are the *C. complanatus,* Presl, which extends from the Mascarene Islands to New South Wales and Japan. I can draw no definite line between *Pycreus globosus* and *Cyperus complanatus,* nor between these and the three following varieties.

Var. β. **nilagirica,** *C. B. Clarke, in Hook. f. Fl. Brit. Ind.* vi. p. 592; spiculis angustioribus, magis duris, non inflatis, sæpe castaneis interdum nigris.

Cyperus nilagiricus, *Hochst. ex Steud. Syn. Pl. Cyp.* p. 2; *Boeck. in Linnæa,* xxxv. (1867–8) p. 457.

NORTH CHINA (*Hance,* 1387); SHANTUNG (*Maingay,* 152!); KIANGSU: Shanghai (*Maingay,* 637!); CHEKIANG: Ningpo Mts. (*Faber,* 223!); HUPEH: Ichang (*A. Henry,* 2574!); NORTH CENTRAL CHINA: Kusan, Kisaoshian (*Hugh*!), Mt. Ngosan, Laoysan (*Hugh*!), Mt. Thaepeisan (*Hugh*!); SHENSI: Mt. Kifongsan (*Hugh*!); SZECHUEN: Tchenkeoutin (*Farges*!); YUNNAN: Tapintze (*Delavay,* 415, 1753, 1754!), Hokin, 5000 feet (*Delavay,* 1751!), Mosoyn (*Delavay,* 1766!), Mengtze, 4500 feet (*A. Henry,* 9119!), Red River, 6000 feet (*A. Henry,* 9640!); KWANGTUNG: Canton (*Sampson,* 1387!). Mus. Brit.; Herb. Kew.

This var. extends from South and Equatorial Africa to Amurland, Malaya, Australia; it is especially a mountain form.

Var. γ. **stricta,** *C. B. Clarke, in Hook. f. Fl. Brit. Ind.* vi. p. 592; spiculis abbreviatis, sæpius pallidis, non raro curvatis.

Pycreus Linneanus, *Nees, in Linnæa*, ix. (1834) p. 283.

Cyperus strictus, *Lam. Ill.* i. p. 146; *Kunth, Enum. Pl.* ii. p. 12.

Cyperus tortuosus, *Roxb. Fl. Ind.* i. p. 197 [ed. Wallich, p. 201]; *Kunth, Enum.* ii. p. 16.

Cyperus Linnæanus, *Kunth, Enum. Pl.* ii. p. 115.

CHIHLI: Peking (*Bretschneider*, 789!); SHANTUNG: Chefoo (*Faber*, 61! *Schottmueller*, 342!); HUPEH: Ichang (*A. Henry*, 83, 83 A!); YUNNAN: Tapintze (*Delavay*, 402!). Mus. Brit.; Herb. Kew.

This var., frequent in India, is scattered from South Africa and Persia to Japan and the Philippines.

Var. δ. **erecta,** *C. B. Clarke*, var. nova; culmo foliisque robustioribus; umbella sæpe composita, umbellularum radiolis 3–5 usque ad 10–15 mm. longis; spiculis angustis, pallidis, sæpe erectis.

Cyperus erectus (sp.), *Roxburgh, MS.*

FORMOSA: Tamsui (*Oldham*, 581!); KWANGTUNG: Canton (*Sampson*, 933!). Mus. Brit.; Herb. Kew.

The same variety (or form) collected in India by Koenig and Roxburgh.

5. **Pycreus latespicatus,** *C. B. Clarke, in Hook. f. Fl. Brit. Ind.* vi. p. 590.

Cyperus latespicatus, *Boeck. in Flora*, xlii. (1859) p. 433 bis, *et in Linnæa*, xxxv. (1867–8) p. 467.

YUNNAN: Tapintze (*Delavay*, 1752!), Mosoyn (*Delavay*, 1761, pro magna parte!), Milê (*A. Henry*, 9119!). Herb. Kew.

Frequent in Northern India.

6. **Pycreus polystachyus,** *Beauv. Fl. Owar.* ii. (1807) p. 48, t. 86. fig. 2; *Nees, in Nov. Act. Nat. Cur.* xix. *Suppl.* (1843) p. 55; *C. B. Clarke, in Hook. f. Fl. Brit. Ind.* vi. p. 592.

Cyperus polystachyus, *R. Br. Prodr.* p. 214; *Kunth, Enum. Pl.* ii. p. 13; *Hook. et Arn. Bot. Beechey's Voy.* p. 220; *Benth. Fl. Hongk.* p. 385; *Boeck. in Linnæa*, xxxv. (1867–8) p. 477; *Franch. in Mém. Soc. Sc. Nat. Cherb.* xxiv. (1884) p. 262, non *Rottb.*

Cyperus odoratus, *Linn. Sp. Pl.* ed. 1, p. 46, ed. 2, p. 68, et herb. propr., pro majore parte.

Cyperus teretifructus, *Steud. in Zoll. Verz. Ind. Archip.* ii. p. 62.

Cyperus brunneus, *Hook. et Arn. Bot. Beechey's Voy.* p. 99, non *Swartz.*

SHANTUNG (*Maingay*, 155 !); Chefoo (*Fauvel* !); KIANGSU: Shanghai (*Maingay*, 638 !); FORMOSA (*A. Henry*, 1047 !), Takow (*Playfair*, 135 ! *A. Henry*, 1060 !); KWANGTUNG (*Sampson*, 258 !), Lofaushan (*Ford* !), Macao (*Vachell*, 70 ! *da Silva* !), Whampoa (*Hance*, 1230 !); HONGKONG (*C. Wright*, 555 ! *Faurie*, 15800 !). Mus. Brit.; Herb. Kew.

In nearly all warm countries; especially common near the sea.

7. **Pycreus pulvinatus**, *Nees, in Linnæa*, ix. (1834) p. 283.

Pycreus nitens, *Nees, in Linnæa*, ix. (1834) p. 283, *et in Nov. Act. Nat. Cur.* xix. *Suppl.* (1843) p. 53; *C. B. Clarke, in Hook. f. Fl. Brit. Ind.* vi. p. 591.

Cyperus pumilus, *Linn. Amœn. Acad.* iv. (1759) p. 302, *et Sp. Pl.* ed. 2, p. 69; *Gaertn. Fruct.* i. p. 9, t. 2. fig. 2.

Cyperus nitens, *Retz. Obs.* v. (1789) p. 13 ?; *Kunth, Enum. Pl.* ii. p. 3; *Boeck. in Linnæa*, xxxv. (1867–8) p. 483.

Cyperus pulvinatus, *Nees, in Wight, Contrib.* p. 74; *Nees et Meyen, MS. e Nees.*

Cyperus gymnoleptus, *Steud. Syn. Pl. Cyp.* p. 3.

—— *Pluk. Alm.* p. 179, t. 191. fig. 8.

KWANGTUNG: Canton, Lintin I. (*Meyen* !), North River (*Nevin* !), Pakhoi (*Playfair*, 204 !). Mus. Brit.; Herb. Kew.

In tropical and subtropical Africa and Asia, frequent; extending to Malaya and Australia. Also received from Florida and Martinique.

8. **Pycreus sanguinolentus**, *Nees, in Linnæa*, ix. (1834) p. 283; *C. B. Clarke, in Hook. f. Fl. Brit. Ind.* vi. p. 590.

Cyperus sanguinolentus, *Vahl, Enum.* ii. p. 351; *Debeaux, Fl. Tchef.* p. 142.

Cyperus Eragrostis, *Vahl, Enum.* ii. p. 322, syn. Retzii excl. ?; *Roem. et Schult. Syst.* ii. p. 180; *Kunth, Enum. Pl.* ii. p. 7 (cf. p. 537); *Benth. Fl. Hongk.* p. 385; *Boeck. in Linnæa*, xxxv. (1867–8) p. 443, cum varr.; *Hance, in Journ. Bot.* xvii. (1879) p. 16; *Maxim. Fragm.* p. 64; *Franch. in Mém. Soc. Sc. Nat. Cherb.* xxiv. (1884) p. 26, *et Pl. David.* i. p. 316.

Cyperus flavescens, var. rubro-marginata, *Schrenk, Enum. Pl. Nov.* i. p. 3; *Regel, Fl. Ussur.* p. 174.

Cyperus atratus, *Steud. in Zoll. Verz. Ind. Archip.* ii. p. 62; *Boeck. in Linnæa*, xxxv. (1867–8) p. 446.

Cyperus Teysmanni, *Boeck. in Flora*, lviii. (1875) p. 259.

Cyperus sp., n. 36, *Rottb. Descr. et Ic.* p. 29, t. 9. fig. 4.

CHIHLI: Peking (*David*!); SHINGKING: Moukden (*James*!); SHANTUNG (*Maingay*, 156!), Chefoo (*Schottmueller*, 343!); KIANGSU: Kiangnang (*Staunton*!); FOKIEN: Amoy (*Hance*, 1387!), Tachiaotze (*Hance*, 3496!); FORMOSA (*Oldham*, 586!), Takow (*A. Henry*, 1120!); HUPEH: Ichang (*A. Henry*, 2907!), Patung (*A. Henry*, 5019 partim!); SZECHUEN: Tchenkeoutin, 4000 feet (*Farges*, 1131!); YUNNAN: Tapintze (*Delavay*, (1770!); KWANGTUNG (*Yvan*! *Sampson*!); Lofaushan (*Ford*, 122!), Macao (*da Silva*); HONGKONG (*Wilford*, 312!); HAINAN (*A. Henry*, 7949!). Mus. Brit.; Herb. Kew.

Common in Asia, alt. 0–9000 feet, extending from Amurland to Abyssinia and Australia.

1. **Juncellus inundatus**, *C. B. Clarke, in Hook. f. Fl. Brit. Ind.* vi. p. 595.

Cyperus inundatus, *Roxb. Hort. Beng.* (1814) p. 6, *et Fl. Ind.* i. p. 201 (ed. Wallich, p. 205); *Hassk. in Flora*, xlv. (1862) p. 191, nec *R. Br.*, nec *Nees*.

Cyperus Iria, *Linn. Sp. Pl.* p. 67 partim; *Hassk. in Flora*, xliv. (1861) p. 743.

Cyperus diluvialis, *Schultes, in Roem. et Schult. Syst.* ii. *Mant.* p. 124.

—— *Rheede, Hort. Mal.* xii. p. 105, t. 56.

SHINKING (*Ross*, 50!); KIANGSU: Shanghai (*Maingay*, 639!); FORMOSA (*A. Henry*, 702 A!), Takow (*A. Henry*, 1089, 1117, 1130, 1163!). Herb. Kew.

Bengal.

This plant, from its large size and flowering the first year, is often mixed with *C. digitatus*, Roxb., and other large annual species of *Cyperus*. It appears to me closely allied to *Juncellus serotinus*, which differs by its long stolons, and the umbel usually smaller, often with the rhachilla of the spikes hairy.

2. **Juncellus pygmæus**, *C. B. Clarke, in Hook. f. Fl. Brit. Ind.* vi. p. 596.

Cyperus pygmæus, *Rottb. Descr. et Ic.* p. 20, t. 14. figg. 4, 5; *Kunth, Enum. Pl.* ii. p. 18; *Boeck. in Linnæa*, xxxv. (1867–8) p. 493, var. β excl.; *Franch. et Savat. Enum. Pl. Jap.* ii. p. 102.

Isolepis Micheliana, *Stev. in Mém. Soc. Mosc.* v. (1817) p. 356; *Regel, Fl. Ussur.* p. 178, non *Roem. et Schult.*

KIANGSU: Shanghai (*Maingay*, 634!).

Frequent throughout Boissier's Orient Region and in North India; thence scattered to Ussuri, the Philippines, and Queensland.

This plant closely resembles *Scirpus Michelianus*, Linn.; so closely, that Bentham and Boeckeler consider the two identical. Hance's Pekin *Cyperus pygmæus* is *Scirpus Michelianus*, Linn., while Maack's Ussuri *S. Michelianus* is *Juncellus pygmæus*.

3. **Juncellus serotinus,** *C. B. Clarke, in Hook. f. Fl. Brit. Ind.* vi. p. 594.

Cyperus serotinus, *Rottb. Descr. et Ic.* (1773) p. 31; *Kunth, Enum. Pl.* ii. p. 19; *Boeck. in Linnæa,* xxxv. (1867–8) p. 492; *Franch. in Mém. Soc. Sc. Nat. Cherb.* xxiv. (1884) p. 262, *et Pl. David.* i. p. 316; *Diels, in Engl. Jahrb.* xxix. (1901) p. 227.

Cyperus Monti, *Linn. f. Suppl.* p. 102; *Host, Gram. Austr.* iv. p. 38, t. 67; *Regel, Fl. Ussur.* p. 175; *Hance, in Journ. Linn. Soc., Bot.* xiii. (1873) p. 88.

Cyperus Japonicus, *Miq. in Ann. Mus. Bot. Lugd.-Bat.* ii. (1865–6) p. 140.

CHIHLI: Jehol (*David*), Peking (*Bretschneider*, 787! *Hance*, 6531!); SHINGKING: Moukden (*Webster*, 215!); SHANTUNG (*Maingay*, 157!), Chefoo (*Forbes*! *Fauvel*!): FORMOSA: Takow (*A. Henry*, 702, 1842!); SHENSI: Paokesan, Mt. Kifonsan (*Hugh*!); HUPEH: Ichang (*A. Henry*, 2249!), Hanyang (*Faber*, 1512!); YUNNAN: Mosoyn (*Delavay*, 1767, 2717!); KWANGTUNG: Canton (*Macartney*). Mus. Brit.; Herb. Kew.

From South Europe to North India, Amurland, Japan.

1. **Cyperus albidus,** *Retz. Obs.* vi. p. 21; *Kunth, Enum. Pl.* ii. p. 101.

Cyperus Retzii, *Poir. in Lam. Encyc.* vii. p. 255.

CHINA (fide *Retz.*).

Not seen.

2. **Cyperus amuricus,** *Maxim.*! *Prim. Fl. Amur.* (1859) p. 296; *Boeck. in Linnæa,* xxxv. (1867–8) p. 607; *Palibin, Fl. Koreæ,* iii. p. 19.

Cyperus aristatus, var.? β. Maingayi, *C. B. Clarke, in Journ. Linn. Soc. Bot.* xxi. (1884) p. 94.

Cyperus Iria, var. (amabilis, glumis submucronatis), *C. B. Clarke, in Journ. Linn. Soc., Bot.* xxi. (1884) p. 138 in obs.

Cyperus Iria, *Linn.*, forma japonica, *Boeck.*! *MS.*

CHIHLI: Peking (*Möllendorff*! *Hance*, 1147 pro parte!); SHINGKING (*Ross*, 86!); SHANTUNG (*Maingay*, 84!); SHENSI: Paokisan, Miaouansan (*Hugh*!); SZECHUEN: Tchenkeoutin (*Farges*!); COREA (*Bunge*). Mus. Brit.; Herb. Kew.

Amurland, Mandshuria, Japan.

3. **Cyperus aristatus**, *Rottb. Descr. et Ic.* (1773) p. 23, t. 6. fig. 1; *Kunth. Enum. Pl.* ii. p. 23; *Boeck. in Linnæa*, xxxv. (1867–8) p. 500; *C. B. Clarke, in Hook. f. Fl. Brit. Ind.* vi. p. 606.

Cyperus squarrosus, *Linn. Amœn. Acad.* iv. (1759) p. 303, *et Sp. Pl.* ed. 2, p. 66 partim.

Scirpus intricatus, *Linn. Mant.* p. 182 et herb. propr.!

YUNNAN: Mosoyn (*Delavay*, 1760!).

A small weed, abundant in the warmer parts of Africa, India, Australia, and America, but apparently wanting in Malaya and China, except in the west.

4. **Cyperus castaneus**, *Willd.*; *Nees, in Wight, Contrib.* p. 79 (cum char. et syn.); *Nees, in Hook. et Arn. Bot. Beechey's Voy.* p. 221.

CHINA (*Vachell*, n. 296).

Not seen. Hooker & Arnott add that the Chinese specimen of this which they had seen came from Prof. Henslow.

Vachell n. 296 may have been the true *C. castaneus*, Willd. (*cf.* C. B. Clarke, in Hook. f. Fl. Ind. vi. p. 598), but that is not a common plant, nor have I seen it from China. I think that Vachell n. 296 may have been *C. amuricus*, Maxim. = Maingay n. 84.

5. **Cyperus cephalotes**, *Vahl, Enum.* ii. p. 311; *Kunth, Enum. Pl.* ii. p. 48; *C. B. Clarke, in Hook. f. Fl. Brit. Ind.* vi. p. 597.

Cyperus monogynus, *Boeck. in Linnæa*, xxxv. (1867–8) p. 565.

Scirpus glomeratus, *Linn. Sp. Pl.* ed. 1, p. 52; *Hassk. in Flora*, xliv. (1861) p. 743.

Schœnus coloratus, var. β, *Linn. Sp. Pl.* ed. 2, p. 64.

Anosporum monocephalum, *Nees, in Wight, Contrib.* p. 92; *Boeck. in Linnæa*, xxxvi. (1869–70) p. 411.

Hydroschœnus kyllingioides, *Moritzi, Syst. Verz. Zoll.* p. 95.

Trentepohlia bifoliata, *Boeck. in Bot. Zeit.* xvi. (1858) p. 249.

—— *Rheede, Hort. Mal.* xii. p. 99, t. 53.

FOKIEN: Amoy (*Jenkins*!).

From Assam to Ceylon and North Australia.

6. **Cyperus compressus,** *Linn. Sp. Pl.* ed. 1, p. 46, ed. 2, p. 68; *Rottb. Descr. et Ic.* p. 27, t. 9. fig. 3; *Kunth, Enum. Pl.* ii. p. 23; *Nees, in Nov. Act. Nat. Cur.* xix. *Suppl.* i. (1843) p. 56; *Boeck. in Linnæa,* xxxv. (1867–8) p. 517; *C. B. Clarke, in Hook. f. Fl. Brit. Ind.* vi. p. 605; *Henriq. in Bol. Soc. Brotero,* ii. p. 166.

Cyperus pectiniformis, *Nees, in Wight, Contrib.* p. 77 (*syn.* C. pectinato, *Roxb. excl.*); *Hook. et Arn. Bot. Beechey's Voy.* p. 221.

Cyperus Meyenii, *Nees, in Nov. Act. Nat. Cur.* xix. *Suppl.* i. (1843) p. 57; *Nees et Arn. MS. fide Nees.*

FOKIEN: Amoy (*Sampson,* 257!); FORMOSA (*Campbell! A. Henry,* 1869!); SZECHUEN: Tcentosen, Mt. Uomisan (*Hugh*!); KWANGTUNG: Macao (*Tate*!), Whampoa (*C. Wright,* 556!); HAINAN (*A. Henry,* 8242!). Mus. Brit.; Herb. Kew.

In warm countries throughout the World, frequent.

7. **Cyperus dichroostachyus,** *Hochst. in Flora,* xxiv. (1841) pars i., *Intell.* p. 21; *Boeck. in Linnæa,* xxxv. (1867–8) p. 587; *C. B. Clarke, in Dyer, Fl. Trop. Afr.* viii. pp. 311, 331, with syn.

YUNNAN: south of Red River, from Maumei, 6000 feet (*A. Henry,* 9473!), Yunnanfu (*Ducloux,* 31!). Herb. Kew.

Africa and Madagascar.

8. **Cyperus difformis,** *Linn. Amœn. Acad.* iv. (1759) p. 302, *et Sp. Pl.* ed. 2, p. 67; *Rottb. Descr. et Ic.* p. 24, t. 9. fig. 2; *Benth. Fl. Hongk.* p. 385; *Hance, in Journ. Linn. Soc., Bot.* xiii. (1873) p. 89; *Debeaux, Fl. Tchef.* p. 144; *Franch. in Mém. Soc. Sc. Nat. Cherb.* xxiv. (1884) p. 262, *et Pl. David.* i. p. 317; *Kunth, Enum. Pl.* ii. p. 38; *Boeck. in Linnæa,* xxxv. (1867–8) p. 586; *C. B. Clarke, in Hook. f. Fl. Brit. Ind.* vi. p. 599.

Cyperus fuscus, *Maxim. Fragm.* p. 64? *non Linn.*

CHIHLI: Peking (*Hance*!); SHINKING (*Ross,* 85!), Neuchang (*Webster,* 314!); SHANTUNG (*Maingay,* 87!); KIANGSU: Shanghai (*Maingay,* 645! 646!); KIANGSI: Kiukiang (*David*!); FOKIEN: Amoy (*Hance,* 995!); FORMOSA: Tamsui (*Oldham,* 582!); SZECHUEN: Tcentosen, Mt. Uomisan (*Hugh*!); HUPEH: Ichang (*A. Henry,* 2370!); YUNNAN: Mengtze, 4600 feet (*A. Henry,* 11318!), Kiangyu (*Delavay,* 3078!), Hokin (*Delavay,* 1759!); KWANGTUNG: Canton (*Sampson,* 464!); HONGKONG (*C. Wright,* 558! *Harland*). Mus. Brit.; Herb. Kew.

The tropics and warm temperate zones of the Old World—a rice-field weed.

9. **Cyperus diffusus**, *Vahl, Enum.* ii. p. 321; *Kunth, Enum. Pl.* ii. p. 30; *Nees, in Nov. Act. Acad. Nat. Cur.* xix. *Suppl.* i. (1843) p. 58; *C. B. Clarke, in Hook. f. Fl. Brit. Ind.* vi. p. 603.

Cyperus elegans, *Swartz, Obs. Bot.* p. 30; *Kunth, Enum. Pl.* ii. p. 28; *Boeck. in Linnæa*, xxxv. (1867–8) p. 532, *non Linn.*

Cyperus mœstus, *Kunth, Enum. Pl.* ii. p. 31.

Cyperus nigro-viridis, *Thwaites, Enum. Fl. Zeyl.* p. 344; *Hance, in Journ. Linn. Soc., Bot.* xiii. (1873) p. 131.

CHEKIANG: Chusan (*Yvan*!); KWANGTUNG: Whampoa (*Sampson, hb. Hance*, 2149!); HONGKONG (*Harland*!). Mus. Brit.; Herb. Kew.

The tropics in South-east Asia and in America; a sylvan species.

10. **Cyperus digitatus**, *Roxb. Hort. Beng.* p. 81, *et Fl. Ind.* (ed. *Wall. et Carey*) i. p. 209; *C. B. Clarke, in Hook. f. Fl. Brit. Ind.* vi. p. 618.

Cyperus auricomus, *Benth. Fl. Austral.* vii. p. 286.

Cyperus venustus, *Nees, in Flora*, xi. (1828) p. 333, *et in Wight Contrib.* p. 86; *non R. Br.*

Cyperus Neesii, *Kunth, Enum. Pl.* ii. p. 101, syn. Linn. excl.; *Boeck. in Linnæa*, xxxvi. (1869–70) p. 315.

Cyperus verticillatus, *Nees, in Wight, Contrib.* p. 87, pro parte.

FORMOSA: Takow (*A. Henry*, 1862, 1862 A!); YUNNAN: Mengtze, 5000 feet (*A. Henry*, 11320!); KWANGSI (*Wenyon*!), – ? Lungchow (*A. Henry*, 685!). Herb. Kew.

Tropic and subtropic regions of the world; abundant in India, frequent in America, rare in Africa.

11. **Cyperus distans**, *Linn. f. Suppl.* p. 103; *Beauv. Fl. Owar.* i. p. 35, t. 20; *Benth. Fl. Hongk.* p. 387; *Kunth, Enum. Pl.* ii. p. 93; *Hook. et Arn. Bot. Beechey's Voy.* p. 223; *Boeck. in Linnæa*, xxxv. (1867–8) p. 612; *Franch. in Bull. Soc. Bot. France*, xxix. (1882) p. 12; *C. B. Clarke, in Hook. f. Fl. Brit. Ind.* vi. p. 607; *Linnæus, MS.*

FORMOSA (*A. Henry*, 1011, 1041!), Takow (*Playfair* 108!); KWANGTUNG: Lofaushan (*Ford*, 121, 124!), Macao (*d'Incarville*! *Fauvel*!). Mus. Brit.; Herb. Kew.

Throughout the warmer regions of the world, in rice-fields and ditches.

12. **Cyperus eleusinoides**, *Kunth, Enum. Pl.* ii. p. 39; *Boeck. in Linnæa*, xxxv. (1867–8) p. 596; *Hance, in Journ. Bot.* xvi. (1878) p. 112; *C. B. Clarke, in Hook. f. Fl. Brit. Ind.* vi. p. 608.

Cyperus infra-apicalis, *Nees, ex Aitch. Cat. Pl. Punjab*, p. 155; *Hance, l. c. in citat.*

Formosa: Takow (*Playfair* 56! *A. Henry*, 768, 1078!); Yunnan: Tapintze (*Delavay*, 1769!), Mengtze 4600 feet (*A. Henry*, 10012!); Kwangtung (*Hance*, 19311!). Mus. Brit.; Herb. Kew.

Frequent in India; scattered west to Abyssinia and Syria, east to the Philippines and Queensland.

13. **Cyperus eriophorus**, *Steud. Syn. Pl. Cyp.* p. 50.

Kwangtung: Macao (ex *Steudel*).

Not seen. This has the leaf-sheaths fringed in their mouths and on their margins with woolly hairs, and must be a very remarkable *Cyperus*, if of that genus. Unfortunately, as in so many other cases, the author does not mention those points of structure which define the genus of the plant; so that there remains a doubt whether he looked at these points, which doubt cools the interest that otherwise would attach to such a species.

14. **Cyperus exaltatus**, *Retz. Obs.* v. p. 11; *Kunth, Enum. Pl.* ii. p. 70; *Boeck. in Linnæa*, xxxvi. (1869–70) p. 319; *C. B. Clarke, in Hook. f. Fl. Brit. Ind.* vi. p. 617.

Cyperus venustus, *R. Br. Prodr.* p. 217.

Cyperus alopecuroides, *Roxb. Hort. Beng.* p. 6, *et Fl. Ind.* i. p. 208, nec *Rottb.*

Cyperus racemosus, *Boeck. in Flora*, lxii. (1879) p. 555 [neque in *Linnæa*, xxxvi. (1869–70) p. 310]; *Hance, in Journ. Bot.* xvi. (1878) p. 112, non *Retz.*

—— *Rheede, Hort. Mal.* xii. p. 77, t. 42.

Shantung (*Staunton*!); Kwangtung: Canton (*Sampson*! hb. *Hance*, 9308!), Macao (*Callery*!); Hainan (*A. Henry*, 32, 8369!). Mus. Brit.; Herb. Kew.

In tropic and subtropic regions; common in Africa, Asia, and Australia; very rare in America.

15. **Cyperus fuscus**, *Linn. Sp. Pl.* ed. 1, p. 46, ed. 2, p. 69; *Kunth, Enum. Pl.* ii. p. 37; *Hook. in Sowerby, Engl. Bot., Suppl.* t. 2626; *Boeck. in Linnæa*, xxxv. (1867–8) p. 585; *C. B. Clarke, in Hook. f. Fl. Brit. Ind.* vi. p. 599.

NORTH CENTAL CHINA: Hukiascien (*Hugh*!); SHENSI: Mt. Kifongsan (*Hugh*!). Mus. Brit.

Throughout Europe and West Asia to the Himalayas.

16. **Cyperus glomeratus**, *Linn. Amœn. Acad.* iv. (1759) p. 301, *et Sp. Pl.* ed. 2, p. 68; *Kunth, Enum. Pl.* ii. p. 77; *Reichb. Ic. Fl. Germ.* t. 284. fig. 675; *Boeck. in Linnæa*, xxxv. (1867–8) p. 592; *C. B. Clarke, in Hook. f. Fl. Brit. Ind.* vi. p. 607; *Franch. in Mém. Soc. Sc. Nat. Cherb.* xxiv. (1884) p. 262, *et Pl. David.* i. p. 316.

CHIHLI: Jehol (*David*!), Peking (*Williams*!), Tachiaotze (*Möllendorff*!); SHINGKING (*Ross*, 34!); SHANTUNG (*Maingay*, 155!), Tsien Mts. (*Faber*, 1514!). Mus. Brit.; Herb. Kew.

In Europe frequent; scattered thence to Kashmir, North China, and Amurland.

17. **Cyperus Haspan**, *Linn. Sp. Pl.* ed. 2, p. 66 partim, *nec Linn. herb.*; *Kunth, Enum. Pl.* ii. p. 34; *Benth. Fl. Hongk.* p. 386, *et Fl. Austral.* vii. p. 270; *Boeck. in Linnæa*, xxxv. (1867–8) p. 574, var. *a*; *Bretschn. Early Research.* p. 111; *C. B. Clarke, in Hook. f. Fl. Brit. Ind.* vi. p. 600; *Diels, in Engl. Jahrb.* xxix. (1901) p. 227.

Cyperus pes-avium, *Bertol. Misc. Bot.* viii. p. 30, t. 3. fig. 1.

Cyperus, n. 37, *Linn. Fl. Zeyl.* p. 15.

Scirpus, n. 78, *Rottb. Descr. et Ic.* p. 58, t. 17. fig. 3, syn. Linn. excl.

CHEKIANG: Ningpo Mts. (*Faber*, 7, 1739!); SZECHUEN: Tcentosen, Mt. Uomisan (*Hugh*!); *HUPEH: Ichang (*A. Henry*, 2250!); KWANGTUNG: Canton (*Sampson*, 260!), Macao (*da Silva*!); Pakhoi (*Playfair*, 108!); HONGKONG (*Harland*! *Wilford*, 48! *C. Wright*, 557! *Schottmueller*, 449!). Mus. Brit.; Herb. Kew.

Throughout the world, in tropical and warm temperate regions.

18. **Cyperus Iria**, *Linn. Sp. Pl.* ed. 1, p. 45, ed. 2, p. 67, tab. Rheedei cit. excl.; *Thunb. Fl. Japon.* p. 36; *Kunth, Enum. Pl.* ii. p. 38; *Nees, in Hook. et Arn. Bot. Beechey's Voy.* p. 223, et *in Nov. Act. Nat. Cur.* xix. *Suppl.* (1843) p. 70; *Benth. Fl. Hongk.* p. 386; *Boeck. in Linnæa*, xxxv. (1867–8) p. 595, *et in Engl. Jahrb.* vi. (1885) p. 51; *Bretschn. Early Research.* p. 111; *C. B. Clarke, in Hook. f. Fl. Brit. Ind.* vi. p. 606; *Debeaux, Fl. Tchef.* p. 154, *et in Act. Soc. Linn. Bordeaux*, xxxiii. (1879)

p. 45; *Franch. in Bull. Soc. Bot. de France*, xxix. (1882) p. 12, *in Mém. Soc. Sc. Nat. Cherb.* xxiv. (1884) p. 262, et *Pl. David.* i. p. 317; *Henriq. in Bol. Soc. Brotero*, ii. p. 166; *Diels, in Engl. Jahrb.* xxix. (1901) p. 227; *Palibin, Fl. Koreæ*, iii. p. 19.

Cyperus Santonici, *Rottb. Descr. et Ic.* p. 41, t. 9. fig. 1.

CHIHLI: Peking (*Hance*, 1147 pro parte!), Tientsin (*Debeaux*!); SHANTUNG: Chefoo (*Forbes*! *Debeaux*! *Fauvel*!); KIANGSU: Shanghai (*Maingay*, 635!), Kiangnan (*Staunton*!); CHEKIANG: Ningpo Mts. (*Faber*!), Chusan (*Yvan*!); KIANGSI (*David*!); FORMOSA (*A. Henry*, 731!); HUPEH (*E. H. Wilson*, 1657 *a*!), Ichang (*A. Henry*, 2161, 2770!); SZECHUEN: Tchenkeoutin (*Farges*!); YUNNAN: Tapintze (*Delavay*, 1764!); KWANGTUNG: Canton (*Sampson*, 259!), Macao (*Vachell*! *Meyen*!), Lienchau (*Lamont*!); HONGKONG (*Wilford*, 266! *Harland*!); COREA (*Kalinowsky*); LUCHU ARCHIPELAGO (*Döderlein*). Mus. Brit.; Herb. Kew.

Through the warmer regions of the world—a weed in rice-fields.

Var. **paniciformis**, *C. B. Clarke, in Hook. f. Fl. Brit. Ind.* vi. p. 607.

Cyperus paniciformis, *Franch. et Savat. Pl. Jap.* ii. pp. 103, 357.

Cyperus parviflorus, *Nees*! *in Wight, Contrib.* p. 87 (syn. omnibus excl.); *Hook. et Arn. Bot. Beechey's Voy.* p. 223; non *Vahl.*

Cyperus Iria, *Thwaites*! *Enum. Pl. Zeyl.* p. 344.

FORMOSA (*Campbell*), Tamsui (*Oldham*, 585!); HUPEH: Ichang (*A. Henry*, 302, 680!), Suinlinglen (*Faber*!); HONGKONG (*C. Wright*, 359! *Didrichsen*, 3310!). Mus. Brit.; Herb. Kew.

Scattered from the Himalaya and Japan to Ceylon and Timor.

19. **Cyperus malaccensis**, *Lam. Ill.* i. (1791) p. 146; *Kunth, Enum. Pl.* ii. p. 74; *Boeck. in Linnæa*, xxxv. (1867–8) p. 603, var. β excl.; *C. B. Clarke, in Hook. f. Fl. Brit. Ind.* vi. p. 608.

Cyperus odoratus, *Linn. Sp. Pl.* ed. 1, p. 46, ed. 2, p. 68, et herb. propr. partim.

Cyperus spaniophyllus, *Steud. Syn. Pl. Cyp.* p. 21.

Cyperus Fortunei, *Steud. Syn. Pl. Cyp.* p. 21.

—— *Rheede, Hort. Mal.* xii. p. 93, t. 50.

CHINA (*Fortune*, 7, 1004!); KWANGTUNG: Macao (herb. *Berol.*!), Whampoa (*Hance*, 6193!); LUCHU ARCHIPELAGO (*Dickins*!). Mus. Brit.; Herb. Kew.

Frequent in India, extending west to Persia, east to the Philippines and North Australia.

20. **Cyperus niveus**, *Retz. Obs.* v. p. 12; *Kunth, Enum. Pl.* ii. p. 45; *Boeck. in Linnæa*, xxxv. (1867–8) p. 530; *C. B. Clarke, in Hook. f. Fl. Brit. Ind.* vi. p. 601.

SZECHUEN: Mount Omei (*Faber*, 1122!); YUNNAN: Hokin (*Delavay*, 1758!), Tienfang, 900 feet (*A. Henry*, 9511!). Herb. Kew. – 7

Throughout India and Burma, in turf.

21. **Cyperus nutans**, *Vahl, Enum.* ii. p. 363; *Kunth, Enum. Pl.* ii. p. 94; *Boeck. in Linnæa*, xxxv. (1867–8) p. 597; *C. B. Clarke, in Hook. f. Fl. Brit. Ind.* vi. p. 607.

Cyperus Jacquini, *Schrad. in Linnæa*, xi. (1837) *Litt.-Bericht.* p. 87; *Fenzl, in Denkschr. Akad. Wiss. Wien*, viii. (1854) p. 45, t. 1.

YUNNAN: Mengtze, 4600 feet (*A. Henry*, 9737!). Herb. Kew.

In India common, extending east to Khasia and Assam.

22. **Cyperus pilosus**, *Vahl, Enum.* ii. p. 354; *Kunth, Enum. Pl.* ii. p. 80; *Benth. Fl. Hongk.* p. 387; *Boeck. in Linnæa*, xxxv. (1867–8) p. 598; *C. B. Clarke, in Hook. f. Fl. Brit. Ind.* vi. p. 609; *Diels, in Engl. Jahrb.* xxix. (1901) p. 227.

Cyperus marginellus, *Nees, in Wight, Contrib.* p. 83, *et in Hook. et Arn. Bot. Beechey's Voy.* p. 222; *Kunth, Enum. Pl.* ii. p. 75.

Cyperus subalatus, *Steud. Syn. Pl. Cyp.* p. 31.

Cyperus pauciflorus, *Steud. Syn. Pl. Cyp.* p. 34.

Cyperus piptolepis, *Steud. Syn. Pl. Cyp.* p. 40.

CHINA (*Millett*!); HUPEH: Ichang (*Henry*, 2358, 5019 partim!); YUNNAN: Szemao, 4000 feet (*A. Henry*, 13140!); KWANGTUNG: Macao (*Vachell*, 681!), Canton (*Sampson*, 8193!), Lofaushan (*Ford*!), Lienchau (*Lamont*!), Whampoa (*Hance*, 13138!); HONGKONG (*Urquhart*! *C. Wright*, 562!). Mus. Brit.; Herb. Kew.

Rare in Tropical Africa; abundant in India, Burma, and Malaya, extending to Japan, the Philippines, and Queensland.

23. **Cyperus procerus**, *Rottb. Descr. et Ic.* p. 29, t. 5. fig. 3; *Kunth, Enum. Pl.* ii. p. 72; *Hance, in Journ. Bot.* xvi. (1878) p. 113; *C. B. Clarke, in Hook. f. Fl. Brit. Ind.* vi. p. 610.

Cyperus amoyensis, *Hance, in Ann. Sc. Nat.* 5me sér. v. (1866) p. 249.

Cyperus Heynei, *Boeck. in Linnæa*, xxxv. (1867–8) p. 600.

Cyperus puncticulatus, *Trimen, Cat. Pl. Ceylon*, p. 99, non *Vahl.*

FOKIEN: Amoy (*Hance*, 1392 partim!); KWANGTUNG (*Sampson*!). Mus. Brit.; Herb. Kew.

Frequent in India; extending to Malaya and Queensland.

This plant, from its red colour, is much mixed in the old herbaria with *C. puncticulatus*, Vahl, which never has a trifid style, and is a true *Pycreus*.

Hance described his *C. amoyensis* from his Amoy plant, Hance 1392. Subsequently Hance put his n. 1392 on a plant which he received from India, which is not at all the same. Hance's numbers refer to his numbered list—not to his collections.

24. **Cyperus radians**, *Nees et Meyen, ex Nees, in Linnæa*, ix. (1834) p. 285, *et in Nov. Act. Nat. Cur.* xix. *Suppl.* i. (1843) p. 63; *Benth. Fl. Hongk.* p. 386; *Boeck. in Linnæa*, xxxv. (1867–8) p. 515; *Franch. in Mém. Soc. Sc. Nat. Cherb.* xxiv. (1884) p. 261; *C. B. Clarke, in Hook. f. Fl. Brit. Ind.* vi. p. 605; *Henriq. in Bol. Soc. Brotero*, ii. (1883) p. 166.

Cyperus radicans, *Kunth, Enum. Pl.* ii. p. 95 (errore typogr.).

Cyperus Griffithii, *Steud. Syn. Pl. Cyp.* p. 316; *C. B. Clarke, Journ. Linn. Soc., Bot.* xxi. (1884) p. 101; *Ridl. in Journ. Straits Branch Asiat. Soc.* xxiii. (1891) p. 5.

Cyperus macropus, *Miq. Fl. Ind. Bat., Suppl.* pp. 260, 599, non *Boeck.*

Cyperus sinensis, *Debeaux, in Act. Soc. Linn. Bordeaux*, xxxi. (1877) p. 14, t. 2; xxxviii. (1878) p. 30.

Shantung: Chefoo (*Debeaux*!); Kwangtung: Cape Syngmun (*Meyen*!), Macao (*Hance*, 10135!), Pakhoi (*Playfair*, 84!); Hongkong (*C. Wright*, 565!). Mus. Brit.; Herb. Kew.

Malay Peninsula and Islands.

25. **Cyperus radiatus**, *Vahl, Enum.* ii. p. 369; *Kunth, Enum. Pl.* ii. p. 71; *Boeck. in Linnæa*, xxxvi. (1869–70) p. 317; *Hance, in Journ. Bot.* xvi. (1878) p. 113; *C. B. Clarke, in Hook. f. Fl. Brit. Ind.* vi. p. 617.

Cyperus verticillatus, *Roxb. Hort. Beng.* p. 6, *et Fl. Ind.* i. p. 206; *Hook. et Arn. Bot. Beechey's Voy.* p. 222.

Cyperus macrosciadion, *Steud. Syn. Pl. Cyp.* p. 37.

Formosa: Takow (*A. Henry*, 1819!); Kwangtung (*Sampson*, 1460, 1617! *Naumann*!). Mus. Brit.; Herb. Kew.

In tropic and subtropic regions of the world; common in Africa and India, less abundant in America.

26. **Cyperus rotundus**, *Linn. Sp. Pl.* ed. 2, p. 67, *nec Linn. herb. propr.*; *Thunb. Fl. Japon.* p. 36; *Lour. Fl. Cochinch.* ed.

INTERNATIONAL CATALOGUE OF SCIENTIFIC LITERATURE.

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BOTANY

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THE JOURNAL

OF

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Willd. p. 53; *Kunth, Enum. Pl.* ii. p. 58 (*C. bulboso*, Vahl, sp. aliisque excl.); *Boeck. in Linnæa*, xxxvi. (1869–70) p. 283; *Benth. Fl. Hongk.* p. 387; *C. B. Clarke, in Hook. f. Fl. Brit. Ind.* vi. p. 615; *Debeaux, Fl. Tchefou*, p. 145, *et in Act. Soc. Linn. Bordeaux*, xxx. (1875) p. 65, et xxxiii. (1879) p. 45; *Franch. in Mém. Soc. Sc. Nat. Cherb.* xxiv. (1884) p. 262, *et Pl. David.* i. p. 317; *Henriq. in Bolet. Soc. Broter.* ii. (1883) p. 166; *Diels, in Engl. Jahrb.* xxix. (1901) p. 227.

Cyperus hexastachyus, *Rottb. Descr. et Ic.* p. 28, t. 14. fig. 2; *Hook. et Arn. Bot. Beechey's Voy.* p. 272 [neque *Nees, in Nov. Act. Nat. Cur.* xix. *Suppl.* i. (1843) p. 60].

Cyperus odoratus, *Osbeck, Voy.* ed. *Forst.* ii. p. 342; *Bretschn. Early Research.* p. 111 (oderatus), non *Linn.*

Cyperus lævissimus, *Steud. Cyp.* p. 32.

CHINA (*Staunton*! *Hance*, 1247!); CHIHLI: Tientsin (*Debeaux*!); SHANTUNG: Chefoo (*Debeaux*! *Forbes*, 1247!); NORTH CENTRAL CHINA: Hukiascien (*Hugh*!); KIANGSU: Shanghai (*Maingay*, 640, 763!); CHEKIANG: Ningpo (*Faber*, 223!); KIANGSI (*David*!); FORMOSA (*Swinhoe*! *A. Henry*, 1014, 1035, 1165!), Tamsui (*Oldham*, 583!), Takow (*A. Henry*, 1774!); HUPEH: Ichang (*A. Henry*, 214!); YUNNAN: Tapintze (*Delavay*, 405!); KWANGTUNG: Macao (*Gaudichaud*, 140!), Canton (*Sampson*, 262!), Pakhoi (*Playfair*, 208!); HONGKONG (*Harland*! *C. Wright*, 560 partim! 561 in herb. Kew! *Lamont*, 833!); HAINAN (*A. Henry*, 8240!); LUCHU ARCHIPELAGO (*Beechey*!). Mus. Brit.; Herb. Kew.

In all tropical and warm temperate countries, most abundant; of sedges the worst pest in rice-fields.

27. **Cyperus stolonifer**, *Retz. Obs.* iv. p. 10; *Boeck. in Linnæa*, xxxv. (1867–8) p. 489 (syn. *C. tuberoso* et var. β excl.); *C. B. Clarke, in Hook. f. Fl. Brit. Ind.* vi. p. 615.

Cyperus littoralis, *R. Br. Prodr.* p. 216.

Cyperus tuberosus, *Bojer, Hort. Maurit.* p. 379; *Kunth, Enum. Pl.* ii. p. 50, non *Rottb.*

Cyperus rotundus, "partim," *Kunth, Enum. Pl.* ii. p. 59; *Boeck. in Linnæa*, xxxvi. (1869–70) p. 284, non *Linn.*

Cyperus bulboso-stoloniferus, *Steud. in Zoll. Verz. Ind. Archip.* ii. p. 62, *et Cyp.* p. 18.

Cyperus conjunctus, *Steud. Cyp.* p. 18.

Cyperus arenarius, *Hance, in Ann. Sc. Nat.* 4me sér. xviii. (1862) p. 233, in Obs., non *Retz.*

FOKIEN: Amoy (*Hance*!); FORMOSA: Takow (*Playfair*, 115! *A. Henry*, 1957!); KWANGTUNG: Macao (*Hance*, 1386!). Mus. Brit.; Herb. Kew.

Mauritius, India, Malaya, Tropical Australia.

28. **Cyperus subfuscus**, *Debeaux, in Act. Soc. Linn. Bordeaux*, xxxi. (1877) t. 3, et xxxii. (1878) p. 30; *Franch. in Mém. Soc. Sc. Nat. Cherb.* xxiv. (1884) p. 262.

Cyperus fuscus, var. chinensis, *Debeaux, l. c.* xxxii. (1878) p. 30.

SHANTUNG (*Staunton*!); Chefoo (*Debeaux*). Mus. Brit.

No type of this critical species has been seen; Staunton's example is referred here by comparison with Debeaux's figure.

29. **Cyperus tegetiformis**, *Roxb. Hort. Beng.* p. 6; *Kunth, Enum. Pl.* ii. p. 56; *Hance, in Journ. Bot.* xvii. (1879) p. 102; *Dyer, in Journ. Bot.* xviii. (1880) p. 224; *C. B. Clarke, in Hook. f. Fl. Brit. Ind.* vi. p. 612.

Cyperus malaccensis, var. β. brevifolia, *Boeck. in Linnæa*, xxxv. (1867–8) p. 604, syn. excl.

FORMOSA (*Hosie*, 3! *A. Henry*, 790, 1129!); SZECHUEN (*Swinhoe*); KWANGTUNG: Macao (*Hornemann*, 103!), Whampoa (*Hance*, 6193, 1392 partim! nec 1392 in Amoy lecta); KWANGSI (*Wenyon*!). Mus. Brit.; Herb. Kew.

Extends from India to Japan.

Is used extensively for making mats; in Formosa, *fide* Hosie, cultivated for that purpose.

30. **Cyperus truncatus**, *Turcz.*! *in Bull. Soc. Mosc.* (1838) p. 103 (nomen nudum), *et Fl. Baical.-Dahur.* ii. pars I. p. 245; *Maxim. Prim. Fl. Amur.* p. 297; *Boeck. in Linnæa*, xxxv. (1867–8) p. 604, non *A. Rich.*

SHINKING: Moukden (*James*, 6, 7!); CHEKIANG: Ningpo Mountains (*Faber*, 84!). Herb. Kew.

Dahuria, Amurland, Japan.

Var. β. **orthostachya**, *C. B. Clarke.*

Cyperus orthostachyus, *Franch. et Sav. Pl. Jap.* ii. pp. 106, 539.

Cyperus fimbriatus, *Franch. et Sav. Pl. Jap.* ii. p. 107; *Miquel*! *MS.*, non *Nees* (an *Miq. in Ann. Mus. Bot. Lugd.-Bat.* ii. p. 142?).

HUPEH: Ichang (*A. Henry*, 5019!). Herb. Kew.

Japan.

31. **Cyperus tuberosus**, *Rottb. Descr. et Ic.* p. 28, t. 7. fig. 1; *Kunth, Enum. Pl.* ii. p. 50, pro parvâ parte; *Boeck. in Linnæa*, xxxvi. (1869–70) p. 285 partim; *C. B. Clarke, in Hook. f. Fl. Brit. Ind.* vi. p. 616.

Cyperus rotundus, *Benth. Fl. Austral.* vii. p. 279, pro magnâ parte.

Cyperus tenuiflorus, *Roxb. Hort. Beng.* p. 5, *et Fl. Ind.* i. p. 199, nec *Rottb.*

Cyperus Retzii, *Nees, in Wight, Contrib.* p. 82; *Kunth, Enum. Pl.* ii. p. 73.

FORMOSA: Takow (*A. Henry*, 778! 1037!). Mus. Brit.; Herb. Kew.

Tropical Africa, India, and Australia.

This species is so hardly separable from tall forms of *C. rotundus* that the very copious synonymy which has been accumulated is not here cited. The Formosa examples match very closely the Indian *C. tenuiflorus*, Roxb.

32. **Cyperus uncinatus**, *Poir. in Lam. Encyc.* vii. (1806) p. 247; *Kunth, Enum. Pl.* ii. p. 21; *Boeck. in Linnæa*, xxxv. (1867–8) p. 502.

Cyperus cuspidatus, *H. B. K. Nov. Gen. et Sp.* i. p. 204; *Kunth, Enum. Pl.* ii. p. 22; *Boeck. in Linnæa*, xxxv. (1867–8) p. 496; *C. B. Clarke, in Hook. f. Fl. Brit. Ind.* vi. p. 598.

Cyperus castaneus, *Miq. Fl. Ind. Bat.* iii. p. 261; *Hance, in Journ. Linn. Soc., Bot.* xiii. (1873) p. 130, vix *Willd.*

Cyperus solutus, *Steud. Cyp.* p. 14.

YUNNAN: Szemao, 5000 feet (*A. Henry*, 13390!); KWANGTUNG: Macao (*Lay*!), Canton (*Dods*!), Whampoa (*Hance*, 7461!). Mus. Brit.; Herb. Kew. — ?

In the tropics and warm temperate regions of Asia, Africa, and America. A common rice-field weed and on moist banks. To this is closely allied the true *C. castaneus*, Willd., a very much rarer species.

33. **Cyperus Zollingeri**, *Steud. in Zoll. Verz. Ind. Archip.* ii. (1854) p. 62; *Boeck. in Linnæa*, xxxvi. (1869–70) p. 352; *C. B. Clarke, in Hook. f. Fl. Brit. Ind.* vi. p. 613.

Cyperus bracteatus, *Steud. Cyp.* p. 19.

Cyperus hexastachyus, *Nees, in Nov. Act. Acad. Nat. Cur.* xix. *Suppl.* i. (1843) p. 60.

Cyperus tenuiculmis, *Boeck. in Linnæa*, xxxvi. (1869–70) p. 286, nec *Boeck. in Flora*, lxii. (1879) p. 554.

Cyperus Wightii, *Hance, in Journ. Bot.* xvi. (1878) p. 14, non *Nees.*

Cyperus lucidulus, *C. B. Clarke, in Journ. Linn. Soc., Bot.* xxi. (1884) p. 99, et xxv. (1889) p. 80; nec *Klein*, nec *Kunth.*

Yunnan: Szemao, 5000 feet (*A. Henry*, 12186!); Kwangtung: Macao (*Abel*!), Whampoa (*Hance*, 19480!); Hongkong (*C. Wright*, 560 partim!). Mus. Brit.; Herb. Kew.

In Tropical Africa and in India plentiful; extending to Luzon and to Queensland.

1. **Mariscus albescens,** *Gaud. in Freycinet, Voy.* (1826) p. 415; *C. B. Clarke, in Hook. f. Fl. Brit. Ind.* vi. p. 623.

Cyperus stuppeus, *Forst. f. Ins. Austral. Prodr.* p. 89.

Cyperus pennatus, *Lam. Ill.* i. (1791) p. 144; *Kunth, Enum. Pl.* ii. p. 80; *Benth. Fl. Hongk.* p. 387; *Hance, in Journ. Linn. Soc., Bot.* xiii. (1873) p. 131; *Henriq. in Bolet. Soc. Broter.* ii. (1883) p. 166.

Cyperus canescens, *Vahl, Enum.* ii. p. 355, syn. *Rheede* excl.; *Boeck. in Linnæa,* xxxvi. (1869–70) p. 340; *Nees, in Nov. Act. Nat. Cur.* xix. *Suppl.* i. (1843) p. 61; *Hook. et Arn. Bot. Beechey's Voy.* p. 222.

Cyperus bromoides, *Vachell*, ex *Nees, l. c.*

China (*Gaudichaud*, 42!); Formosa (*A. Henry*, 763, 783, 1032!), Takow (*Playfair*, 107! *A. Henry*, 1007!); Kwangtung: Macao (*Vachell*, 67!); Hongkong (*Harland*! *C. Wright*, 563! *Seemann*, 556). Mus. Brit.; Herb. Kew.

South-east Asia, Tropical Australia, Polynesia, Sandwich Isles.

2. **Mariscus cyperinus,** *Vahl, Enum.* ii. p. 377; *Nees, in Hook. et Arn. Bot. Beechey's Voy.* p. 223; *C. B. Clarke, in Hook. f. Fl. Brit. Ind.* vi. p. 621.

Kyllinga cyperina, *Retz. Obs.* vi. (1791) p. 21.

Cyperus umbellatus, *Benth. Fl. Hongk.* p. 386, non *Roxb.*

Formosa (*Oldham*, 584! *A. Henry*, 1118!), Takow (*A. Henry*, 1700!); Yunnan: Hsenkai (*A. Henry*, 9563!); Kwangtung: Macao (*Vachell*, 73 *a*! *Callèry*!); Hongkong (*C. Wright*, 566! *Hance*, 1244! *Lamont*, 831!). Mus. Brit.; Herb. Kew.

A common Malay and Polynesian plant, extending to Japan and Kamtschatka.

This "species" (as *M. philippensis* and numerous others) is united with *M. Sieberianus* by Bentham under the name *Cyperus umbellatus,* for which an older name is *Mariscus biglumis,* Gaertn. Fruct. ii. (1788) p. 12. t. 2. fig. 8.

3. **Mariscus microcephalus**, *Presl, Rel. Haenk.* i. p. 182; *C. B. Clarke, in Hook. f. Fl. Brit. Ind.* vi. p. 624.

Mariscus dilutus, *Nees, in Wight, Contrib.* p. 90.

Cyperus giganteus, *Boeck. in Flora*, xlii. (1859) pp. 443, 496.

Cyperus compactus, *Retz. Obs.* v. p. 10, fide auctorum.

Cyperus dilutus, *Vahl, Enum.* ii. p. 357; *Nees, in Nov. Act. Nat. Cur.* xix. *Suppl.* i. (1843) p. 65; *Kunth, Enum. Pl.* ii. p. 92.

Cyperus septatus, *Steud. Cyp.* p. 46.

KWANGTUNG: Canton (*Sampson*, 1612! hb. *Hance*, 1367!); Lofaushan (*Ford*!). Mus. Brit.; Herb. Kew.

Common in India and Malaya, extending to Mascarenia.

4. **Mariscus philippensis**, *Steud. Cyp.* p. 66, char. penitus mutato.

Mariscus umbellatus, *Presl, Rel. Haenk.* i. p. 181.

Cyperus cylindrostachys (partim), *Boeck. in Linnæa*, xxxvi. (1869–70) p. 383.

HAINAN (*A. Henry*, 8!). Herb. Kew.

Philippine Islands.

See observation above under *M. cyperinus*. The Hainan plant of A. Henry closely matches at all events the Philippine type of Steudel.

5. **Mariscus Sieberianus**, *Nees, in Linnæa*, ix. (1834) p. 286; *C. B. Clarke, in Hook. f. Fl. Brit. Ind.* vi. p. 622.

Mariscus umbellatus, *Vahl, Enum.* ii. p. 376, pro parte; *Kunth, Enum. Pl.* ii. p. 118, pro majore parte.

Mariscus cyperinus, *Presl, in Oken, Isis*, xxi. (1828) p. 270; *Nees, in Nov. Act. Nat. Cur.* xix. *Suppl.* i. (1843) p. 71, var. α et partim var. β: *Hook. et Arn. Bot. Beechey's Voy.* p. 272.

Scirpus cyperoides, *Linn. Mant.* p. 181, et herb. propr.!

Kyllinga umbellata, *Roxb. Fl. Ind.* i. p. 182.

Cyperus umbellatus, *Miq. in Ann. Mus. Bot. Lugd.-Bat.* ii. (1865–6) p. 142.

Cyperus ovularis, *Boeck. in Linnæa*, xxxvi. (1869–70) p. 383, var. α partim, *in Engl. Jahrb.* vi. (1885) p. 51, nec *Torrey*.

Cyperus cylindrostachyus, *Boeck. in Linnæa*, xxxvi. (1869–70) p. 383, pro magnâ parte.

Cyperus Sieberianus, *Diels, in Engl. Jahrb.* xxix. (1901) p. 227.

CHINA (*Meyen*!); CHEKIANG: Ningpo Mountains (*Faber*, 225!); FORMOSA: Tamsui (*A. Henry*, 1456!); HUPEH (*A. Henry*, 1330!), Patung (*E. H. Wilson*, 1657!); SZECHUEN: Tchenkeoutin (*Farges*!); YUNNAN: Tapintze (*Delavay*, 1773!), Mengtze

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(*A. Henry*, 13726 !), Ichatong (*Delavay*, 414 bis !); HONGKONG (*Lamont* !); LUCHU ARCHIPELAGO (*Beechey* ! *Döderlein* !). Mus. Brit.; Herb. Kew.

Throughout all tropical and subtropical regions; both general and abundant in South-east Asia.

1. **Torulinium confertum,** *Ham. Prodr. Ind. Occ.* p. 15.

Torulinium ferox, *Kunth, Enum. Pl.* ii. p. 90 in citat.

Cyperus odoratus, *Linn. Sp. Pl.* ed. 1, p. 46, quoad tab. Sloan. citatam neque ultra, nec *Sp. Pl.* ed. 2, p. 68, neque herb. propr.; *Vahl, Enum.* ii. p. 356 partim; *Kunth, Enum. Pl.* ii. p. 67; *Boeck. in Linnæa*, xxxvi. (1869–70) p. 407.

Cyperus ferax, *Rich. in Act. Soc. Hist. Nat. Paris*, i. (1792) p. 106 *Kunth, Enum. Pl.* ii. p. 89; *Boeck. in Linnæa*, xxxvi. (1869–70) p. 399.

Cyperus ferox, *Vahl, Enum.* ii. p. 357, pro parte.

Cyperus flexuosus, *Vahl, Enum.* ii. p. 359.

Cyperus densiflorus, *G. F. W. Meyer, Fl. Esseq.* p. 34; *Nees, in Nov. Act. Nat. Cur.* xix. *Suppl.* i. (1843) p. 67, quoad syn. citat.; *Kunth, Enum. Pl.* ii. p. 104.

Cyperus auriculatus, *Nees, in Nov. Act. Nat. Cur.* xix. *Suppl.* i. (1843) p. 67; *Kunth, Enum. Pl.* ii. p. 83; *Boeck. in Linnæa*, xxxvi. (1869–70) p. 354.

Cyperus lomentaceus, *Nees et Meyen, in Nov. Act. Nat. Cur.* xix. *Suppl.* i. (1843) p. 60; *Kunth, Enum. Pl.* ii. p. 83.

Cyperus multiceps, *Hook. et Arn. Bot. Beechey's Voy.* p. 100; *Kunth, Enum. Pl.* ii. p. 102.

Cyperus Prescottianus, *Hook. et Arn. Bot. Beechey's Voy.* p. 100; *Kunth, Enum. Pl.* ii. p. 102.

Cyperus strigosus, *Hook. et Arn. Bot. Beechey's Voy.* p. 99; *Kunth, Enum. Pl.* ii. p. 88 partim; non *Linn.*

Papyrus odoratus, *Willd. in Abhandl. Akad. Berlin* (1812), p. 73, partim.

Mariscus Pohlianus, *Nees, in Mart. Fl. Bras.* ii. pars I. p. 50.

Mariscus ferax, *C. B. Clarke, in Hook. Fl. Brit. Ind.* vi. p. 624.

Diclidium ferox, *Schrader, ex Nees, in Mart. Fl. Bras.* ii. pars I. p. 54.

FORMOSA: Takow (*A. Henry*, 716, 729 !). Mus. Brit.; Herb. Kew.

Throughout the Tropics. Abundant in the New World, where it extends to Buenos Ayres. Besides the synonyms above cited, I have sixty-three others, several of which have been accepted as species by Kunth, many by Boeckeler. The confusion arose with Linnæus; his *C. odoratus* was founded on two plants—*Pycreus polystachyus*, Beauv., mixed with *Cyperus malaccensis*, Lam. The specific name of L. C. Rich, "*ferax*," was early improved (?) by authors into "*ferox*."

1. **Kyllinga brevifolia**, *Rottb. Descr. et Ic.* p. 13, t. 4. fig. 3; *Boeck. in Linnæa*, xxxv. (1867–8) p. 424; *C. B. Clarke, in Hook. f. Fl. Brit. Ind.* vi. p. 588; *Ridl. in H. O. Forbes, Eastern Archip.* p. 521; *Diels, in Engl. Jahrb.* xxix. (1901) p. 228; *Palibin, Fl. Koreæ*, iii. p. 20.

Kyllinga triceps, *Thunb. Fl. Japon.* p. 35, non *Rottb.*

Kyllinga sororia, *Kunth, Enum. Pl.* ii. p. 131.

Kyllinga gracilis, *Kunth, Enum. Pl.* ii. p. 134.

Schœnus coloratus, *Linn. Sp. Pl.* ed. 1, p. 64, et herb. propr.!

Scirpus glomeratus, *Linn. Sp. Pl.* ed. 1, p. 52; *Osbeck, ex Bretschn. Early Research.* p. 111?

North Central China: Tcentosen, Mt. Momisan (*Hugh*!); Hukiascien (*Hugh*!); Formosa (*Oldham*, 249! 588 in hb. Kew! 587 in hb. Mus. Brit.!), Apes' Hill (*Playfair*, 281!); Hupeh: Ichang (*A. Henry*, 2908, 3644, 3985, 4268, 7375!); Szechuen: Tchenkeoutin (*Farges*!); Yunnan: Kichau (*Delavay*, 4035!), Tchenfongchang (*Delavay*!), Mosoyn (*Delavay*, 1772!), Mengtze, 5000 feet (*A. Henry*, 10728!); Kwangtung: Canton (*Yvan*!), Macao (*Callery*!); Hongkong (*Lamont*, 835! *C. Wright*, 567 partim!); Corea (*Oldham*, 906!); Luchu Archipelago (*C. Wright*, 359!). Mus. Brit.; Herb. Kew.

Throughout the world, in tropical and warm temperate regions.

2. **Kyllinga cylindrica**, *Nees, in Wight, Contrib.* p. 91; *Boeck. in Linnæa*, xxxv. (1867–8) p. 415; *C. B. Clarke, in Hook. f. Fl. Brit. Ind.* vi. p. 588.

Yunnan: Mengtze, 4600 feet (*A. Henry*, 10966!). Herb. Kew.

Scattered in the tropical and subtropical regions of the Old World, from West Africa to New South Wales. Represented in the New World by *K. odorata*, Vahl, hardly separable as a species.

3. **Kyllinga intermedia**, *R. Br. Prodr.* p. 219; *Kunth, Enum. Pl.* ii. p. 138; *Benth. Fl. Austral.* vii. p. 251.

Kyllinga brevifolia, *Boeck. MS. in Amalia Dietrich, Exsicc.* n. 717.

Australia.

Var. **β. oligostachya**, *C. B. Clarke.*

Kyllinga oligostachya, *Boeck. in Linnæa,* xxxv. (1867–8) p. 407.

Kyllinga monocephala, *Seem. Fl. Vit.* p. 318, pro majore parte.

FORMOSA: Takow, Apes' Hill (*A. Henry,* 1012, A, B!). Herb. Kew.

Fiji.

This species is perhaps, as Boeckeler sometimes thought, only a small-headed var. of *K. brevifolia,* Rottb.

4. **Kyllinga melanosperma,** *Nees, in Wight, Contrib.* p. 91; *Kunth, Enum. Pl.* ii. p. 131; *Boeck. in Linnæa,* xxxv. (1867–8) p. 419; *C. B. Clarke, in Hook. f. Fl. Brit. Ind.* vi. p. 588.

Kyllinga fuscescens, *Boeck. in Linnæa,* xxxv. (1867–8) p. 421 partim.

Kyllinga vaginata, *Steud. in Zoll. Verz. Ind. Archip.* ii. p. 63, var. β incl.

? — YUNNAN: Mengtze, 4600 feet (*A. Henry,* 10164!), Tapintze (*Delavay,* 1747!). Herb. Kew.

Scattered in the tropic and subtropic regions of the Old World, from Central and South Africa to Java.

5. **Kyllinga monocephala,** *Rottb. Descr. et Ic.* p. 13, t. 4. fig. 4; *Kunth, Enum. Pl.* ii. p. 129; *Benth. Fl. Hongk.* p. 388 partim; *Debeaux, Fl. Tchefou,* p. 146?; *Franch. in Mém. Soc. Sc. Nat. Cherb.* xxiv. (1884) p. 262?; *Boeck. in Linnæa,* xxxv. (1867–8) p. 427; *in Engl. Jahrb.* vi. (1885) p. 51; *Ridl. in H. O. Forbes, Eastern Archip.* p. 521; *C. B. Clarke, in Hook. f. Fl. Brit. Ind.* vi. p. 588.

Kyllinga triceps, *Linn. f. Suppl.* p. 104 partim; non *Rottb.*

Kyllinga brevifolia, *Moritzi, Verz. Zoll. Pfl.* p. 95.

Kyllinga sororia, *Miq. Fl. Ind. Bat.* iii. p. 293 partim; non *Kunth.*

Kyllinga gracilis, *Steud. in Zoll. Verz. Ind. Archip.* ii. p. 63, non *Kunth.*

Kyllinga mindorensis, *Steud. Cyp.* p. 67.

Kyllinga intermedia, *Seem. in Bonplandia,* ix. (1861) p. 261, non *R. Br.*

Kyllinga monocephala, var. subtriceps, *Kunth, Enum. Pl.* ii. p. 129.

Schœnus niveus, *Linn. Syst. Veget.* ed. *Murray,* xiii. p. 81.

Scirpus cephalotes, *Jacq. Hort. Vindob.* i. p. 42, t. 97.

Thryocephalon nemorale, *J. R. et G. Forst. Gen. Pl.* p. 130, t. 65.

Cyperus leucocephalus, *Hassk. Pl. Jav. Rar.* p. 87, non *Retz.*

FORMOSA: South Cape (*A. Henry,* 1329!) KWANGTUNG: Macao (*Calléry,* 377! *Tate*!), Pakhoi (*Playfair,* 202!); HONGKONG (*C. Wright,* 567 partim!); KWANGSI (*Wenyon*!); HAINAN

(*A. Henry*, 30!); LUCHU ARCHIPELAGO (*Döderlein*!). Mus. Brit.; Herb. Kew.

Throughout the Old World, in tropic and subtropic regions, especially near the sea.

6. **Kyllinga triceps**, *Rottb. Descr. et Ic.* p. 14, t. 4. fig. 6, tab. Rheedei excl.; *Linn. f. Suppl.* p. 104 partim; *Kunth, Enum. Pl.* ii. p. 133, saltem pro majore parte; *Boeck. in Linnæa*, xxxv. (1867–8) p. 413, var. β excl.; *C. B. Clarke, in Hook. f. Fl. Brit. Ind.* vi. p. 587.

Kyllinga nana, *Nees, in Hook. et Arn. Bot. Beechey's Voy.* p. 224; *Kunth, Enum. Pl.* ii. p. 138.

Kyllinga monocephala, *Nees, in Wight, Contrib.* p. 191, *in Hook. et Arn. Bot. Beechey's Voy.* p. 224; non *Rottb.*

KWANGTUNG: Macao (*Vachell*, 72, *a*, *b*!). Herb. Kew.

In tropical and subtropical regions of the Old World, from Senegambia to China and Australia.

1. **Eleocharis acicularis**, *R. Br. Prodr.* p. 224 in notâ; *Kunth, Enum. Pl.* ii. p. 141; *C. B. Clarke, in Hook. f. Fl. Brit. Ind.* vi. p. 628.

Eleocharis Chætaria, *Hance, in Journ. Bot.* xvii. (1878) p. 112, non *Roem. et Schult.*

Scirpus acicularis, *Linn. Sp. Pl.* ed. 1, p. 48, ed. 2, p. 71, partim neque in hb. propr.; *Franch. in Mém. Soc. Sc. Nat. Cherb.* xxiv. (1884) p. 262.

Heleocharis acicularis, *Koch, Syn. Fl. Germ.* ed. 2, p. 853; *Boeck. in Linnæa*, xxxvi. (1869–70) p. 431; *Diels, in Engl. Jahrb.* xxix. (1901) p. 228.

Elæocharis acicularis, *Ledeb. Fl. Ross.* iv. p. 243; *Maxim. Prim. Fl. Amur.* p. 298.

Chætocyperus costulatus, *Nees et Meyen, in Nov. Act. Nat. Cur.* xix. *Suppl.* i. (1843) p. 96.

Chætocyperus Limnocharis, *Nees, in Hook. Journ. Bot.* ii. (1840) p. 397; *Hook. et Arn. Bot. Beechey's Voy.* p. 272.

SHANTUNG: Chefoo (*Fauvel*!); KIANGSU: Shanghai (*Maingay*, 633!); CHEKIANG: Ningpo Mountains (*Faber*, 71!); FORMOSA: Takow (*A. Henry*, 1839!); HUPEH (*A. Henry*, 7367!); Ichang (*A. Henry*, 2368!); YUNNAN: Mosoyn (*Delavay*, 811!); Kanhaytze (*Delavay*, 4803!); KWANGTUNG: Canton (*Hance*, 7883!); COREA: Chusan (*Wilford*, 443!); LUCHU ARCHIPELAGO (*C. Wright*, 357!). Mus. Brit.; Herb. Kew.

Throughout Europe and North Asia, extending southward only in China. Extends in America throughout the continent.

2. **Eleocharis afflata**, *Steud. in Zoll. Verz. Ind. Archip.* ii. (1854) p. 62, *et Cyp.* p. 76; *C. B. Clarke, in Hook. f. Fl. Brit. Ind.* vi. p. 629.

Eleocharis pellucida, *Presl, Rel. Haenk.* i. p. 196; *Kunth, Enum. Pl.* ii. p. 152, e descript.

Eleocharis subprolifera, *Steud. in Zoll. Verz. Ind. Archip.* ii. p. 62, *et Cyp.* p. 80.

Scirpus afflatus, *Benth. Fl. Hongk.* p. 394.

Scirpus attenuatus, *Franch. et Savat. Pl. Jap.* ii. pp. 110, 543.

Heleocharis ochrostachys, *Boeck. in Linnæa,* xxxvi. (1869–70) p. 452, *non* Eleocharis ochrostachys, *Steud.*

Heleocharis chlorocarpa, *Boeck. in Flora,* lxi. (1878) p. 34.

Heleocharis Kuntzei, *Boeck. in Cyp. Novæ,* i. (1888) p. 14.

Heleocharis afflata, *Naves, in Blanco, Fl. Philipp. Append.* 1880, p. 307; *Diels, in Engl. Jahrb.* xxix. (1901) p. 228.

Heleocharis acicularis, var. japonica, *Diels, in Engl. Jahrb.* xxix. (1901) p. 228?

CHEKIANG: Ningpo Mountains (*Faber*, 1518!); SZECHUEN: Tcentosen, Mt. Uomisan (*Hugh*!); HUPEH: Ichang (*A. Henry*, 3644! 4295! 7786!); YUNNAN: Tchenfongchang (*Delavay*!), Ontohay (*Delavay*, 408!); KWANGTUNG: Canton (*Sampson*!); HONGKONG (*Wilford*, 273! *Harland*, 543! *C. Wright*, 594! *O. Kuntze*, 3561!). Mus. Brit.; Herb. Kew.

Abundant in East Bengal and in Japan. The specific name "*pellucida*" is older, but less certain, than *afflata*.

3. **Eleocharis atropurpurea**, *Kunth, Enum. Pl.* ii. p. 151; *C. B. Clarke, in Hook. f. Fl. Brit. Ind.* vi. p. 627.

Scirpus atropurpureus, *Retz. Obs.* v. p. 14.

Isolepis atropurpurea, *Roem. et Schult. Syst.* ii. p. 106, *et Mant.* p. 61; *Kunth, Enum. Pl.* ii. p. 190.

Eleogenus atropurpureus, *Nees, in Wight, Contrib.* p. 113.

Heleocharis atropurpurea, *Koch, Syn. Fl. Germ.* ed. II. p. 853; *Boeck. in Linnæa,* xxxvi. (1869–70) p. 458, var. γ excl.

SZECHUEN: Tcentosen, Mt. Uomisan (*Hugh*!); KWANGTUNG: Macao (*Lay*!). Mus. Brit.

Throughout the world, in tropical and warm temperate climates.

4. **Eleocharis capitata**, *R. Br. Prodr.* p. 225; *Kunth, Enum. Pl.* ii. p. 150, syn. quibusdam excl.; *C. B. Clarke, in Hook. f. Fl. Brit. Ind.* vi. p. 627.

Eleocharis setacea, *R. Br. Prodr.* p. 225, nec p. 224.

Scirpus capitatus, *Linn. hb. propr.*, partim; *Benth. Fl. Hongk.* p. 394.

Eleogenus capitatus, *Nees, in Wight, Contrib.* p. 112.

Heleocharis capitata, *Boeck. in Linnæa*, xxxvi. (1869–70) p. 461.

FORMOSA (*A. Henry*, 1042!), Takow (*Playfair*, 134! *A. Henry*, 704!); HONGKONG (*C. Wright*, 593!). Mus. Brit.; Herb. Kew.

Throughout the world in tropical and warm regions, more abundant in America; not yet seen from Europe.

5. **Eleocharis fistulosa**, *Link, Jahrb.* iii. (1820) p. 78; *Kunth, Enum. Pl.* ii. p. 155; *C. B. Clarke, in Hook. f. Fl. Brit. Ind.* vi. p. 626.

Eleocharis acutangula *et* E. media, *Schultes, in Roem. et Schult. Syst.* ii. *Mant.* p. 91.

Scirpus fistulosus, *Poir. in Lam. Encycl.* vi. p. 749.

Limnochloa acutangula *et* L. media, *Nees in Wight, Contrib.* p. 114.

Heleocharis fistulosa, *Boeck. in Linnæa*, xxxvi. (1869–70) p. 472 (syn. et exemplis Amer. excl.?); *Diels, in Engl. Jahrb.* xxix. (1901) p. 228.

HUPEH: Ichang (*A. Henry*, 4102, 4102 A!). Mus. Brit.; Herb. Kew.

In the tropic and subtropic regions of the Old World; abundant in India. The representative common American species is *E. mutata*, R. Br., which is united with *E. fistulosa* by Boeckeler, not without reason.

6. **Eleocharis palustris**, *R. Br. Prodr.* p. 224 in notâ; *Bunge, Enum. Pl. China Bor.* p. 68; *Kunth, Enum. Pl.* ii. p. 147; *Nees, in Nov. Act. Nat. Cur.* xix. *Suppl.* i. (1843) p. 96; *Regel, Fl. Ussur.* p. 244; *C. B. Clarke, in Hook. f. Fl. Brit. Ind.* vi. p. 628.

Eleocharis uniglumis, *Schultes, in Roem. et Schult. Syst.* ii. *Mant.* pp. 88, 539.

Eleocharis pileata, *A. Gray! in Mem. Amer. Acad.* n. s. vi. (1858–9) p. 417 in notâ.

Scirpus palustris, *Linn. Sp. Pl.* ed. 1, p. 47, ed. 2, p. 70 partim; *Franch. in Mém. Soc. Sc. Nat. Cherb.* xxiv. (1884) p. 262, *et Pl. David.* i. p. 317.

Scirpus uniglumis, *Link, Jahrb.* iii. p. 77; *Franch. in Mém. Soc. Sc. Nat. Cherb.* xxiv. (1884) p. 262, *et Pl. David.* i. p. 318.

Scirpus pileatus, *Franch. et Sav. Enum. Pl. Jap.* ii. p. 110.

Scirpus kamtschaticus, *C. A. Meyer, in Mém. Sav. Etr. Pétersb.* i. (1831) p. 198, t. 1.

Heleocharis palustris, *Lindl. Syn. Brit. Fl.* p. 280; *Boeck. in Linnæa,* xxxvi. (1869–70) p. 466, exemplis 3-stigmatosis excl.

Chihli: Jehol (*David*, 1910, 2712 !), Peking (*Bretschneider*, 865 !); Shantung: Chefoo (*Fauvel* !); Hupeh: Patung (*E. H. Wilson*, 1645 !), 6700 feet (*E. H. Wilson*, 1645 *a* !); Szechuen: Tchenkeoutin, 4500 feet (*Farges*, 4185 !); Yunnan: 5000 feet (*J. Anderson* !), Mengtze, 4500 feet (*A. Henry*, 10862 !), Kanhaytze, 9500 feet (*Delavay*, 2182 !), Tapintze (*Delavay*, 244, 416, 912 !). Mus. Brit.; Herb. Kew.

Throughout the world, except South-east Asia and Australia. The Australian plants referred to *E. palustris* by Boeckeler have the style 3-fid; *cf.* Benth. Fl. Austral. vii. pp. 294–296. The high-level Yunnan *E. palustris* is a frontier of the species.

7. **Eleocharis plantaginea**, *R. Br. Prodr.* p. 224 in notâ; *Bunge, Pl. Chin. Bor.* p. 68; *Kunth, Enum. Pl.* ii. p. 153; *C. B. Clarke, in Hook. f. Fl. Brit. Ind.* vi. p. 625.

Scirpus plantaginoides, *Rottb. Descr. et Ic.* p. 45, t. 15. fig. 2.

Scirpus plantagineus, *Retz. Obs.* v. p. 14; *Hance, in Journ. Linn. Soc., Bot.* xiii. (1873) p. 131.

Limnochloa plantaginea *et* L. tumida, *Nees, in Wight, Contrib.* p. 114.

Heleocharis plantaginea, *Boeck. in Linnæa,* xxxvi. (1869–70) p. 474, descr. et exemplis Americanis excl.; *Diels, in Engl. Jahrb.* xxix. (1901) p. 228.

Fokien: Amoy (*Hance* !); Formosa: Takow (*A. Henry*, 734 !); Hupeh: Ichang (*A. Henry*, 4247 !); Yunnan: Mosoyn (*Delavay*, 4075 !); Hongkong (*Hance*, 1391 ! *Lamont*, 860 !). Mus. Brit.; Herb. Kew.

In the Old World, from Angola to Japan and Fiji; common in India. The representative species in America is *E. interstincta*, R. Br.

8. **Eleocharis tetraquetra**, *Nees, in Wight, Contrib.* p. 113; *C. B. Clarke, in Hook. f. Fl. Brit. Ind.* vi. p. 630; *Palibin, Fl. Koreæ*, iii. p. 19.

Eleocharis erythrochlamys, *Miq. Fl. Ind. Bat.* iii. p. 300.

Scirpus Wichurai, *Franch. et Sav. Pl. Jap.* ii. p. 544, non *Boeck.*

Scirpus hakonensis *et* S. Onaei, *Franch. et Sav. Pl. Jap.* ii. pp. 110, 111, 544.

Scirpus petasatus, *Maxim. in Bull. Soc. Mosc.* liv. (1879) p. 64.

Heleocharis tetraquetra, *Boeck. in Linnæa,* xxxvi. (1869–70) p. 447; *Diels, in Engl. Jahrb.* xxix. (1901) p. 229.

Heleocharis Wichurai, *Boeck. in Linnæa,* xxxvi. (1869–70) p. 448.

Heleocharis alta, *Boeck. Cyp. Novæ,* i. (1888) p. 17.

CHINA (*A. Henry,* 2298!); CHEKIANG: Ningpo Mts. (*Faber,* 238!); HUPEH: Ichang (*A. Henry,* 4232!). Mus. Brit.; Herb. Kew.

Frequent in the Himalayas, from 1500 to 11,000 feet altitude, extending thence to Japan and New South Wales. The species is strongly defined by the long-fimbriate, not merely bristly, hypogynous setæ; but, in its great range, it varies much in size and in the size of its heads; whence its copious synonymy.

9. **Eleocharis tuberosa,** *Schultes, in Roem. et Schult. Syst.* ii. *Mant.* p. 86; *Miq. Fl. Ind. Bat.* iii. p. 302; *Debeaux, in Act. Soc. Linn. Bordeaux,* xxx. (1875) p. 66 (*cf.* Thozet, 'Roots and Tubers of Queensland,' 1866).

Eleocharis plantaginea, var., *Nees, in Wight, Contrib.* p. 114.

Scirpus tuberosus, *Roxb. Pl. Corom.* iii. p. 25, t. 231, et *Fl. Ind.* i. p. 210; *Hance, in Ann. Sc. Nat.* 5^{me} sér. v. (1866) p. 249.

Scirpus plantagineus, *Franch. Pl. David.* i. p. 318.

Cyperus dulcis?, *Rumph. Amb.* v. 6, p. 7, t. 3. fig. 1.

Hippuris indica, *Lour. Fl. Cochinch.* p. 16, fide syn. citati.

CHIHLI: Peking, culta (*Bretschneider,* 797! *David,* 109!); KIANGSU: Shanghai, culta (*Debeaux*); CHEKIANG: Ningpo Mts. (*Faber,* 1688); KWANGTUNG: Whampoa (*Hance,* 10142!). Mus. Brit.; Herb. Kew.

Both Nees and Franchet regard this important Chinese food-plant as only a cultivated form of *E. plantaginea.* The authentic example of Bretschneider has neither flower-heads nor rhizome. The plant, from China, cultivated at Buitenzorg (Miquel's *tuberosa*?) is gigantic, the culms more than 3 feet high, more than ½ in. in diam., the spike ½–⅓ in. thick; but nothing is known about its tubers.

10. **Eleocharis variegata,** *Kunth, Enum. Pl.* ii. p. 153.

In Mascarenia.

Var. *β.* **laxiflora,** *Ridley, in Journ. Straits Br. Asiat. Soc.* n. 23 (1891) p. 14; *C. B. Clarke, in Hook. f. Fl. Brit. Ind.* vi. p. 626.

Eleocharis ? spiralis, *hb. Hance.*

Scirpus laxiflorus, *Thwaites, Enum. Pl. Zeyl.* p. 435; *Hance, in Journ. Linn. Soc., Bot.* xiii. (1873) p. 131.

Heleocharis Græffeana, *Boeck. in Flora,* lviii. (1875) p. 109.

HONGKONG (*Sampson* in hb. *Hance,* 13333!). Mus. Brit.; Herb. Kew.

In Asia, common, from Bengal and Ceylon to Hongkong and Samoa in W. Polynesia; nor can I distinguish the Central-American *Scirpus plicarrhachis,* Griseb.

1. **Fimbristylis Actinoschœnus**, *C. B. Clarke, in Hook. f. Fl. Brit. Ind.* vi. p. 650.

Arthrostylis filiformis, *Thw. Enum. Pl. Zeyl.* p. 352; *Boeck. in Linnæa,* xxxvii. (1873) p. 524.

Actinoschœnus filiformis, *Benth. in Hook. Ic. Pl.* xiv. p. 33, t. 1346.

Ceylon.

Var. **chinensis,** *C. B. Clarke, in Hook. f. Fl. Brit. Ind.* vi. p. 651.

Arthrostylis chinensis, *Benth. Fl. Hongk.* p. 397; *Hance, in Journ. Linn. Soc., Bot.* xiii. (1873) p. 133; *cf. Hance, in Journ. Bot.* vii. (1869) p. 63.

Actinoschœni sp., *Benth. in Hook. Ic. Pl.* xiv. p. 33.

HONGKONG (*C. Wright,* 599! *Hance,* 7493! *Lamont,* 867!). Mus. Brit.; Herb. Kew.

This variety occurs also in Perak.

2. **Fimbristylis acuminata,** *Vahl, Enum.* ii. p. 285; *Kunth, Enum. Pl.* ii. p. 221; *Benth. Fl. Hongk.* p. 391; *Henriq. in Bolet. Soc. Broter.* ii. (1883) p. 167; *Boeck. in Linnæa,* xxxvii. (1871) p. 3, var. β excl.; *C. B. Clarke, in Hook. f. Fl. Brit. Ind.* vi. p. 631.

Fimbristylis acicularis, *R. Br. Prodr.* p. 226.

Scirpus acuminatus, *Poir. Encyc. Suppl.* v. p. 100, non *Muhl.*

HONGKONG (*Hance*!). Mus. Brit.; Herb. Kew.

From the North-west Himalaya to Singapore, Malaya, and New South Wales.

3. **Fimbristylis æstivalis,** *Vahl, Enum.* ii. p. 288; *Kunth, Enum. Pl.* ii. p. 225; *Benth. Fl. Hongk.* p. 392; *Boeck. in Linnæa,* xxxvii. (1871) p. 11; *C. B. Clarke, in Hook. f. Fl. Brit. Ind.* vi. p. 637.

Fimbristylis laxa, *Regel, Fl. Ussur.* p. 245, non *Vahl.*

Fimbristylis leiocarpa, *Maxim. Prim. Fl. Amur.* p. 301, non *Miq.*

Scirpus æstivalis, *Retz. Obs.* iv. p. 12.

FORMOSA (*Oldham*, 591 !); KWANGTUNG: Canton (*Sampson*, 942 ! *C. Wright*, 582 ! *Ford*, 32 !); HONGKONG (*Wilford* ! *Hance*, 1090 !); HAINAN (*Swinhoe*). Mus. Brit.; Herb. Kew.

Eastern Asia and Australia; from Nepaul and Amurland to Victoria and Viti. The representative species in Brazil, *F. limosa*, Kunth, may be esteemed a geographic form only of *F. æstivalis*.

4. **Fimbristylis complanata,** *Link, Hort. Berol.* i. (1827) p. 292; *Kunth, Enum. Pl.* ii. p. 228; *Hance, in Journ. Linn. Soc., Bot.* xiii. (1873) p. 132; *Henriq. in Bolet. Soc. Broter.* ii. (1883) p. 167; *Franch. in Mém. Soc. Sc. Nat. Cherbourg*, xxiv. (1884) p. 263; *C. B. Clarke, in Hook. f. Fl. Brit. Ind.* vi. p. 646; *Diels, in Engl. Jahrb.* xxix. (1901) p. 229.

Fimbristylis autumnalis, var. *a*, *Boeck. in Linnæa*, xxxvii. (1871) p. 38.

Fimbristylis amblyphylla, *Steud. Cyp.* p. 116, pl. in Obs. excl.

Fimbristylis quinquangularis, *Munro, in Seem. Bot. Voy. 'Herald,'* p. 422, non *Kunth.*

Scirpus complanatus, *Retz. Obs.* v. p. 14.

Scirpus anceps, *Willd. Ges. Naturf. Fr. Berl. Mag.* ii. (1808) p. 287, t. 8. fig. 2.

Trichelostylis complanata, *Nees, in Wight, Contrib.* p. 103, *et in Nov. Act. Nat. Cur.* xix. *Suppl.* i. (1843) p. 84.

SHANTUNG: Chefoo (*Fauvel* ! *Schottmueller*, 331 !), Chefoo Mts. (*Faber*, 69 !); KIANGSU: Shanghai (*Faber*, 235 !); CHEKIANG: Ningpo (*Faber*, 376 !); FORMOSA: Takow (*A. Henry*, 772 !); HUPEH: Ichang (*A. Henry*, 4311 !); YUNNAN: Mosoyn (*Delavay*, 1779, 4552 !); KWANGTUNG: Macao (*da Silva* !), Canton (*Hance*, 7483 !). Mus. Brit.; Herb. Kew.

Common in all warm regions.

Var. **Kraussiana,** *C. B. Clarke, in Hook. f. Fl. Brit. Ind.* vi. p. 646.

Fimbristylis Kraussiana, *Krauss, in Flora,* xxviii. (1845) p. 757; *Hochst. MS.*

Fimbristylis connectens, *Thw. Enum. Pl. Zeyl.* p. 349.

SHANTUNG (*Maingay*, 175 !); KIANGSU: Shanghai (*Maingay*, 693 !); KWANGTUNG: Canton (*Sampson*, 462 partim !). Mus. Brit.; Herb. Kew.

Both in Africa and South-east Asia.

Var. **microcarpa**, *C. B. Clarke, in Hook. f. Fl. Brit. Ind.* vi. p. 646.

Fimbristylis microcarpa, *F. Muell. Fragm. Phyt. Austral.* i. p. 200.

Fimbristylis tenera, *Boeck. in Flora,* lviii. (1875) p. 111, var. excl.; non *Roem. et Schult.*

Fimbristylis sp., a F. autumnali vix distinguenda, *F. Muell. Fragm. Phyt. Austral.* ix. p. 11.

KWANGTUNG: Canton (*Sampson*, 462 partim); HONGKONG (*Hance*, 7488 !). Mus. Brit.; Herb. Kew.

In South-east Asia and Tropical Australia.

F. complanata, as here understood, is common nearly throughout the warmer regions of the World, not, however, extending to Europe or the Mediterranean Region. The two varieties pass into the main species, so that no separate areas can be defined for them. In China, the series graduates from the stout form (*A. Henry*, 4311) down to the delicate Australian *F. microcarpa*, admitted as a species by Bentham, which, again, Boeckeler regards as inseparable from the *F. autumnalis*, Linn., abundant in America.

5. **Fimbristylis cymosa,** *R. Br. Prodr.* p. 228; *Kunth, Enum. Pl.* ii. p. 244; *Nees, in Hook. et Arn. Bot. Beechey's Voy.* p. 98; *Benth. Fl. Austral.* vii. p. 318.

Fimbristylis glomerata, *Boeck. in Linnæa,* xxxvii. (1871) p. 47, partim.

Fimbristylis multifolia, *Boeck. in Linnæa,* xxxviii. (1874) p. 397.

Scirpus cymosus, *Lam. Ill.* i. p. 141.

LUCHU ARCHIPELAGO (*C. Wright*, 358 !). Herb. Kew.

Common in Polynesia, extending from the Sandwich Isles to Tropical Australia and Java.

Boeckeler first placed this plant as identical with the subcapitate form of *F. spathacea*, Roth; and three years later, forgetting this, reconstituted it as a species under a new name.

6. **Fimbristylis cyperoides,** *R. Br. Prodr.* p. 228; *Kunth, Enum. Pl.* ii. p. 244; *C. B. Clarke, in Hook. f. Fl. Brit. Ind.* vi. p. 650.

Gussonea cyperoides, *Presl, Rel. Haenk.* i. p. 183, t. 33.

In warm Australia and the Carolines.

Var. **cinnamometorum,** *C. B. Clarke, in Hook. f. Fl. Brit. Ind.* vi. p. 650.

Fimbristylis cinnamometorum, *Kunth, Enum. Pl.* ii. p. 229; *Boeck. in Linnæa,* xxxvii. (1871) p. 35.

Scirpus cinnamometorum, *Vahl, Enum.* ii. p. 278.

KWANGTUNG: Canton (*Sampson,* 462!). Mus. Brit.; Herb. Kew.

This variety occurs in Ceylon, the mountains of South India, and in Pegu.

7. **Fimbristylis dichotoma,** *Vahl, Enum.* ii. p. 287; *Kunth, Enum. Pl.* ii. p. 225; *Boeck. in Linnæa,* xxxvii. (1871) p. 12, varr. β, γ, syn. Royenianâ et exemplis Americanis excl.; *C. B. Clarke, in Hook. f. Fl. Brit. Ind.* vi. p. 635; *Hance, in Journ. Bot.* xvii. (1878) p. 112.

Fimbristylis pallescens, *Nees, in Wight, Contrib.* p. 101.

Scirpus dichotomus, *Linn. Sp. Pl.* ed. 1, p. 50; ed. 2, p. 74.

SHANTUNG (*Maingay,* 176!); NORTH CENTRAL CHINA: Hukiascien (*Hugh*!); SZECHUEN: Icentosen, Mt. Uomisan (*Hugh*!); YUNNAN: Tali (*Delavay,* 4753!); KWANGTUNG: Macao (*Calléry,* 379!); HONGKONG (*Lamont*!); KWANGSI (*Wenyon*!). Mus. Brit.; Herb. Kew.

An annual weed throughout the warmer parts of the Old World, from South Europe and the Cape of Good Hope to New South Wales. Abundant in India; little collected in China.

8. **Fimbristylis diphylla,** *Vahl, Enum.* ii. p. 289; *Nees, in Nov. Act. Nat. Cur.* xix. *Suppl.* i. (1843) p. 81; *Benth. Fl. Hongk.* p. 392; *Henriq. in Bolet. Soc. Broter.* ii. (1883) p. 166; *C. B. Clarke, in Hook. f. Fl. Brit. Ind.* vi. p. 636; *Diels, in Engl. Jahrb.* xxix. (1901) p. 229.

Fimbristylis laxa, *Vahl, Enum.* ii. (1806) p. 292; *Kunth, Enum. Pl.* ii. p. 232.

Fimbristylis pilosa, *Presl, Rel. Haenk.* i. p. 191, et auctorum plur., non *Vahl.*

Fimbristylis tomentosa, *Vahl, Enum.* ii. p. 290; *Nees, in Nov. Act. Nat. Cur.* xix. *Suppl.* i. (1843) p. 81, *et in Hook. et Arn. Bot. Beechey's Voy.* p. 225; *Debeaux, Fl. Tchefou,* p. 150; *Franch. in Mém. Soc. Sc. Nat. Cherb.* xxiv. (1884) p. 264.

Fimbristylis depauperata, *R. Br. Prodr.* p. 227.

Fimbristylis ovalis, *Nees, in Wight, Contrib.* p. 98; *Hance, in Journ. Bot.* xvii. (1879) p. 16.

Fimbristylis podocarpa, *Nees*!, *in Wight, Contrib.* p. 98 partim, *in Nov. Act. Nat. Cur.* xix. *Suppl.* i. (1843) p. 77, var. β et α partim nec γ, *in Hook. et Arn. Bot. Beechey's Voy.* p. 225 partim; *Benth. Fl. Hongk.* p. 391; non F. podocarpa, *C. B. Clarke, in Hook. f. Fl. Brit. Ind.* vi. p. 638.

Fimbristylis communis, *Kunth, Enum. Pl.* ii. p. 234, syn. quibusdam excl.; *Franch. in Mém. Soc. Sc. Nat. Cherb.* xxiv. (1884) p. 264.

Fimbristylis polymorpha, *Boeck.*! *in Vidensk. Meddel. Kjoeb.* (1869) pp. 141, 158, *et in Linnæa*, xxxvii. (1871) p. 14, syn. paucis excl.

Scirpus diphyllus, *Retz. Obs.* v. p. 15.

Scirpus dichotomus, *Linn. Sp. Pl.* ed. 1, p. 50, quoad exempl. Zeylanicum "typicum," e *Trimen, in Journ. Linn. Soc., Bot.* xxiv. (1888) p. 135.

CHIHLI: Peking (*Bretschneider*, 862!); SHANTUNG (*Maingay*, 176!), Chefoo (*Schottmueller*, 352!), Chefoo Mts. (*Faber*, 285!, *Forbes*, 289, 390!); KIANGSU: Shanghai (*Maingay*, 641, 642!, *Faber*, 234!); KIANGSI: Kiukiang (*Miss Reid*, 57!); FORMOSA: (*A. Henry*, 786 A, 788, 789, 1040, 1101!), Takow (*A. Henry*, 1148!); HUPEH: (*A. Henry*, 4248!), Ichang (*A. Henry*, 2248, 2296, 4251!); YUNNAN: Tchenfongchan (*Delavay*!), Tapintze (*Delavay*, 401, 1765, 4821!); KWANGTUNG (*Forbes*, 182, 186, 187, 189!), Canton (*Sampson*, 269!), Macao (*Abel*!); SOUTH CHINA (*Hance*, 1260! *Didrichsen*, 3197!); HONGKONG (*Wilford*, 278! *Hance*, 7482! *C. Wright*, 585, 587, 588!). Mus. Brit.; Herb. Kew.

Common in all warm countries throughout the world; the most widespread and one of the most abundant of Cyperaceæ.

The range of forms here supposed to be included under *F. diphylla* is rather narrower than that included by Kunth or by Boeckeler, who gave the species a new name (*communis*, Kunth, or *polymorpha*, Boeck.) to indicate that their species had wider limits than *F. diphylla*, Vahl. In the narrower sense here understood, the species has 140 names besides those above cited. The variation in development and in hairiness is very great. The stems and leaves are sometimes stout and rigid, the umbel with 50–100 spikelets, sometimes almost capillary with only one spikelet or very few (=var. *leptophylla*, Benth. Fl. Hongk. p. 392). The colour of the spikelets is usually a ferruginous brown, sometimes nearly black. The common form is glabrous or nearly so; but a hairy form (=var. *tomentosa*, Benth. Fl.

Hongk. p. 392) is common in Malay, frequent in China. Finally the spikelets are sometimes clustered subcapitate, as in Delavay 1765!

9. **Fimbristylis dipsacea**, *Benth. et Hook. f. Gen. Pl.* iii. (1883) p. 1049; *C. B. Clarke, in Hook. f. Fl. Brit. Ind.* vi. p. 635.

Scirpus dipsaceus, *Rottb. Descr. et Ic.* p. 56, t. 12. fig. 1; *Boeck. in Linnæa*, xxxvi. (1869–70) p. 736.

Echinolytrum dipsaceum, *Desv. in Journ. Bot.* i. (1808) p. 21, t. 1.

Isolepis dipsacea, *Roem. et Schult. Syst.* ii. p. 119; *Kunth, Enum. Pl.* ii. p. 205.

Isolepis verrucifera, *Maxim. Prim. Fl. Amur.* p. 300.

YUNNAN (*J. Anderson*!); KWANGTUNG: Canton (*Lamont*!). Mus. Brit.

A common Indian weed, extending to the Philippines and Amurland; received also lately from the Congo.

10. **Fimbristylis Eragrostis**, *Hance, in Journ. Linn. Soc., Bot.* xiii. (1873) p. 132.

Fimbristylis quinquangularis, *Munro, in Seem. Voy. 'Herald,'* p. 422.

Abildgaardia Eragrostis, *Nees, in Wight, Contrib.* p. 95, *et in Hook. et Arn. Bot. Beechey's Voy.* p. 224; *Kunth, Enum. Pl.* ii. p. 249; *Benth. Fl. Hongk.* p. 390; *Boeck. in Linnæa*, xxxvii. (1871) p. 55 partim.

CHEKIANG: Mt. Pakwan (*Hance*, 7482!); FORMOSA (*Campbell*); KWANGTUNG (*Ford*, 190, 191, 192!), Lofaushan (*Ford*, 126, 131!), Cape Syngmun (*Meyen*!), Macao (*Gaudichaud*!), Whampoa (*Didrichsen*!), Canton (*Wichura*, 1708!); HONGKONG (*C. Wright*, 573, 586, 588! *Seemann*, 224 partim!). Mus. Brit.; Herb. Kew.

Also received from Tonkin.

11. **Fimbristylis ferruginea**, *Vahl, Enum.* ii. (1806) p. 291; *Hook. et Arn. Bot. Beechey's Voy.* p. 312; *Benth. Fl. Hongk.* p. 391; *Boeck. in Linnæa*, xxxvii. (1871) p. 16; *C. B. Clarke, in Hook. f. Fl. Brit. Ind.* vi. p. 638.

Fimbristylis arvensis, *Vahl, Enum.* ii. p. 291; *Kunth, Enum. Pl.* ii p. 237.

Fimbristylis tristachya, *R. Br. Prodr.* p. 226; *Nees, in Nov. Act. Nat. Cur.* xix. *Suppl.* i (1843) p. 76.

Scirpus ferrugineus, *Linn. Sp. Pl.* ed. 1, p. 50; ed. 2, p. 74.

Scirpus arvensis, *Retz. Obs.* iv. p. 11.

Formosa (*A. Henry*, 712, 733, 773!), Takow (*A. Henry*, 1066!); Kwangtung: Pakhoi (*Playfair*, 206!); Hongkong (*Harland*, 679! *Hance*, 1260 partim! 7481!). Mus. Brit.; Herb. Kew.

Common in all warm countries, especially near the sea.

The numbers of Hance are not the field-numbers of the collectors, but the list number of his own herbarium (as are the numbers cited mostly by European and by "British" botanists); they are therefore sometimes made up of several distinct collections, and misleading.

12. **Fimbristylis Fordii**, *C. B. Clarke*, n. sp.

Annua, debilis, fere glabra. *Culmi* cæspitosi, 4–8 uncias longi, 2–4-spiculigeri. *Folia* pauca, subsetacea, culmum superantia. *Umbella* simplex; radii usque ad $1\frac{3}{4}$ unc. longi; bracteæ usque ad 1 unc. longæ. *Spiculæ* $\frac{1}{4}$–$\frac{1}{3}$ unc. longæ, lineari-lanceolatæ. *Glumæ* acuminatæ, mucronatæ. *Stylus* 2-fidus. *Nux* obovoidea, straminea, in utraque facie longitudinaliter 9-striata, et (præsertim in lateribus apiceque) valide tuberculata.

Kwangtung: Lofaushan (*Ford*, 132!). Herb. Kew.

Next *F. gracilenta*, Hance; but the nut is different, resembling somewhat that of *F. polytrichoides*.

13. **Fimbristylis fusca**, *Benth. et Hook. f. Gen. Pl.* iii. (1883) p. 1048; *C. B. Clarke, in Hook. f. Fl. Brit. Ind.* vi. p. 649.

Fimbristylis cinnamometorum, *Hance, in Journ. Linn. Soc., Bot.* xiii. (1873) p. 132, *non Kunth*; cf. *Benth. Fl. Austral.* vii. p. 318, in notâ.

Fimbristylis Kamphoveneri, *Boeck. in Engl. Jahrb.* v. (1884) p. 505.

Gussonea pauciflora, *Brongn. in Duperrey, Voy. 'Coquille,'* pars 2 (1829) p. 171, t. 34 B.

Schœnus puberulus, *C. A. Meyer, in Mém. Sav. Etr. Pétersb.* i. (1831) p. 196, t. 1; *Kunth, Enum. Pl.* ii. p. 337.

Abildgaardia fusca, *Nees, in Wight, Contrib.* p. 95; *Benth. Fl. Hongk.* p. 390; *Boeck. in Linnæa,* xxxvii. (1871) p. 54.

Abildgaardia pauciflora, *Kunth, Enum. Pl.* ii. p. 249.

Rhynchospora ? anomala, *Steud. in Zoll. Verz. Pfl. Ind. Archip.* ii. p. 61, *et Cyp.* p. 149.

Isolepis longispica, *Steud. Cyp.* p. 104.

Kwangtung: Canton, West River (*Hance*, 13111 in herb. Paris! foliis perbrevibus); Hongkong (*C. Wright*, 574! *Hance*, 356!). Mus. Brit.; Herb. Kew.

A Malay species extending to Bengal and Canton.

Var. **cantoniensis**, n. var., *C. B. Clarke*; foliis culmo fere æquilongis; bracteis 2, inferiore inflorescentiâ æquilongâ, planâ, suberectâ, apice subito angustatâ.

Fimbristylis fulvescens, *Hance, in Journ. Bot.* xvi. (1878) p. 112, non *Thwaites.*

KWANGTUNG: Canton, Pakwan (*Sampson* in hb. *Hance*, 13111!). Mus. Brit.; Herb. Kew.

The bracts in this plant of Sampson's are very like those of *F. fulvescens*, Thwaites, and I can find no similar ones in *F. fusca*, which has very short setaceous bracts.

14. **Fimbristylis globulosa**, *Kunth, Enum. Pl.* ii. p. 231; *Boeck. in Linnæa*, xxxvii. (1871) p. 45; *C. B. Clarke, in Hook. f. Fl. Brit. Ind.* vi. p. 644.

Scirpus globulosus, *Retz. Obs.* vi. p. 19.

Trichelostylis globulosa, *Nees, in Wight, Contrib.* p. 105.

KIANGSU: Shanghai (*Maingay*, 692! in hb. Kew, 693! in hb. Calcutta); KIANGSI: Kiukiang (*Shearer*!); SZECHUEN: Mt. Omei, alt. 3000 feet (*Faber*, 1134!). Herb. Kew.

Common in India and Malaya.

Var. β. **Torresiana**, *C. B. Clarke, in Hook. f. Fl. Brit. Ind.* vi. p. 645.

Fimbristylis Torresiana, *Gaudich. in Freycinet, Voy.* p. 413; *Kunth, Enum. Pl.* ii. p. 231.

LUCHU ARCHIPELAGO (*Maximowicz*!). Herb. Kew.

This variety is also known from Bengal, Japan, Marianne Isles.

15. **Fimbristylis gracilenta**, *Hance, in Journ. Bot.* vi. (1868) p. 89.

KWANGTUNG: Whampoa (*Hance*, 13227!), Canton (*Sampson*, 919). Mus. Brit.

Also from Tonkin (*Balansa*, 2786!).

The stem often carries 10–12 spikelets in a loose compound umbel; the spikelets are very slender and the nut smooth; in all these points differing from *F. Fordii.*

16. **Fimbristylis Henryi**, *C. B. Clarke*, n. sp.

Fere glabra. *Culmi* annui, dense cæspitosi, 6 uncias longi. *Folia* plura culmos cum inflorescentia superantia, $\frac{1}{10}$ unc. lata. *Umbellæ* bis ter compositæ, c. 20-stachyæ, rigidæ; bracteæ

inflorescentiam superantes, foliis similes. *Spiculæ* $\frac{1}{5}$ unc. longæ, anguste oblongæ, teretes, lucide albo-virides. *Glumæ* apice admodum acuminatæ, mucronatæ. *Stylus* persistens, basi bulbosus, nuce longior, glaber; rami 2, stylo multo breviores. *Nux* angustius obovoidea, levis, luteo-brunea; striæ longitudinales numerosæ, pertenues, subobsoletæ.

HUPEH: Ichang (*A. Henry*, 2774!); NORTH CENTRAL CHINA: Hansunfu, Mt. Leansan (*Hugh*!). Mus. Brit.; Herb. Kew.

This species resembles bright examples of *F. dichotoma*; the nut wants the 5–7 strong longitudinal furrows on each face of *F. dichotoma*.

17. **Fimbristylis insignis**, *Thwaites, Enum. Pl. Zeyl.* p. 349; *Hance, in Journ. Linn. Soc., Bot.* xiii. (1873) p. 132 (syn. *Trichelostylis* n. 20 herb. Hook. f. et T. Thoms. excl.); *C. B. Clarke, in Hook. f. Fl. Brit. Ind.* vi. p. 645.

Fimbristylis Thwaitesii, *Boeck. in Linnæa*, xxxvii. (1871) p. 34.

Fimbristylis amblyphylla, *Steud. Cyp.* p. 116, quoad plantam in obs. descriptam.

KWANGTUNG: Canton (*Hance*, 9858!), Pakwan (*Sampson*, 9858!). Mus. Brit.; Herb. Kew.

Also in Ceylon, Madras, Tonkin, Borneo.

18. **Fimbristylis kwantungensis**, *C. B. Clarke*, n. sp.

Fere glabra. *Culmi* c. 8 uncias longi, graciles, dense cæspitosi. *Folia* plura, $\frac{1}{12}$ unc. lata, cum $\frac{1}{3}$ parte culmi subæquilonga. *Umbella* semel composita, laxa, c. 12-stachya; radii 4–7; bracteæ $\frac{1}{4}$–$\frac{3}{4}$ unc. longæ, subsetaceæ. *Spiculæ* $\frac{1}{4}$ unc. longæ, anguste lanceolatæ, læte bruneæ. *Glumæ* elliptico-lanceolatæ, caudato-acuminatæ. *Stylus* tenuis, glaber, basi pyramidalis; rami 3. *Nux* parvula, cum $\frac{1}{3}$ parte glumæ æquilonga, oblongo-ellipsoidea, rotundo-trigona, lutea brunescens, levis, apicem versus plus minus tuberculosa, leviter striata et transversim lineata.

KWANGTUNG (*Ford*, 193!). Herb. Kew.

This species is allied to *F. quinquangularis*, and more closely to *F. debilis*, F. Mueller, from North Australia.

19. **Fimbristylis leptoclada**, *Benth. Fl. Hongk.* p. 393, nec *Benth. Fl. Austral.* vii. p. 314; *C. B. Clarke, in Hook. f. Fl. Brit. Ind.* vi. p. 647.

Fimbristylis retusa, *Thwaites, Enum. Pl. Zeyl.* p. 349; *Boeck. in Linnæa,* xxxvii. (1871) p. 46; *Hance, in Journ. Bot.* xvi. (1878) p. 112.

Fimbristylis micrantha, *Boeck. l. c.*

KWANGTUNG: Macao (*Callery*!), Whampoa (*Hance*, 9925!); HONGKONG (*C. Wright*, 579!). Mus. Brit.; Herb. Kew.

Received also from Ceylon, Malacca, Borneo.

Bentham made a new sp. *F. leptoclada* in the 'Flora Australiensis,' forgetting that he had already used the name for a Chinese plant.

20. **Fimbristylis longispica,** *Steud. Cyp.* p. 118; *C. B. Clarke, in Hook. f. Fl. Brit. Ind.* vi. p. 639.

Fimbristylis Buergeri, *Miq. in Ann. Mus. Bot. Lugd.-Bat.* ii. (1865–6) p. 144; *Debeaux, Fl. Tchefou,* p. 149.

Fimbristylis spadicea, var. major, *Boeck. in Linnæa,* xxxvii. (1871) p. 20.

Fimbristylis Didrichseni, *Boeck. in Engl. Jahrb.* v. (1884) p. 505, var. *β*. excl.

CHINA (*Horne*!); SHANTUNG: Chefoo (*Debeaux*); KIANGSI: Woosung (*Didrichsen*, 3000!); YUNNAN: Tapintze (*Delavay*, 1757!); HONGKONG (*Faber*, 221!). Herb. Kew.

From Malacca to Japan.

This species differs little from *F. subbispicata*, Nees, but by having more spikelets on the culm; while strong examples hardly differ from the common American *F. spadicea*, Vahl.

21. **Fimbristylis miliacea,** *Vahl, Enum.* ii. (1806) p. 287; *Kunth, Enum. Pl.* ii. p. 230; *Benth. Fl. Hongk.* p. 393; *Boeck. in Linnæa,* xxxvii. (1871) p. 43, *et in Engl. Bot. Jahrb.* vi. (1885) p. 51; *Debeaux, Fl. Tchefou,* p. 151; *Bretschn. Early Research.* p. 181; *Henriq. in Bolet. Soc. Broter.* ii. (1883) p. 167; *Franch. in Mém. Soc. Sc. Nat. Cherb.* xxiv. (1884) p. 263, *et Pl. David.* i. p. 318; *C. B. Clarke, in Hook. f. Fl. Brit. Ind.* vi. p. 644; *Diels, in Engl. Bot. Jahrb.* xxix. (1901) p. 229.

Scirpus miliaceus, *Thunb. Fl. Jap.* p. 37; *Burm. f. Fl. Ind.* p. 22, t. 9. fig. 2, non *Linn.* herb. propr.

Trichelostylis miliacea, *Nees, in Wight, Contrib.* p. 103, *et in Hook. et Arn. Bot. Beechey's Voy.* p. 226, *et in Nov. Act. Nat. Cur.* xix. *Suppl.* i. (1843) p. 84, *et in Seem. Bot. Voy. 'Herald,'* p. 222.

NORTH CENTRAL CHINA: Hansunfu, Mt. Leansan (*Hugh*!); KIANGSU: Shanghai (*Maingay*, 423 partim! 435); CHEKIANG: Ningpo Mts. (*Faber*, 232!), Chusan (*Yvan*!); KIANGSI: Kiukiang (*Forbes*, 193 !); FOKIEN: Amoy (*Hance*, 1393 !); FORMOSA (*Oldham* !), South Cape (*A. Henry*, 249 !), Takow (*A. Henry*, 786, 786 B, 1113 !); HUPEH: Ichang (*A. Henry*, 4147, 4297, 7785 !); SZECHUEN (*Faber*, 1171 !), Tcentosen, Mt. Uomisan (*Hugh* !); YUNNAN: Tchenfongchan (*Delavay*, 5114 !); KWANGTUNG (*Tate* !), Cape Syngmun (*Meyen* !), Whampoa (*Hance*, 1393 !), Canton (*Sampson*, 272 ! *Hance*, 1393 !), Pakhoi (*Playfair*, 122 !); HONGKONG (*Wilford*, 368 ! *C. Wright*, 584 ! *Hance*, 1393 !); LUCHU ARCHIPELAGO (*Döderlein* !). Mus. Brit.; Herb. Kew.

In rice-fields, in all warm parts of the world; abundant in India, Malaya, China.

22. **Fimbristylis monostachya**, *Hassk. Pl. Jav. Rar.* p. 61; *Hance, in Journ. Linn. Soc., Bot.* xiii. (1873) p. 132; *C. B. Clarke, in Hook. f. Fl. Brit. Ind.* vi. p. 649.

Cyperus monostachyus, *Linn. Mant.* p. 180, et in herb. propr. !

Abildgaardia monostachya, *Vahl, Enum.* ii. p. 296; *Kunth, Enum. Pl.* ii. p. 247; *Benth. Fl. Hongk.* p. 389; *Boeck. in Linnæa*, xxxvii. (1871) p. 53; *Henriq. in Bolet. Soc. Broter.* ii. (1883) p. 166.

Abildgaardia compressa, *Presl, Rel. Haenk.* i. p. 179; *Nees, in Nov. Act. Nat. Cur.* xix. *Suppl.* i. (1843) pp. 74, 75.

Abildgaardia Rottboelliana, *Nees, in Wight, Contrib.* p. 95, *et in Hook. et Arn. Bot. Beechey's Voy.* p. 272.

FORMOSA (*Oldham*, 593 ! *Playfair*, 41 ! *A. Henry*, 732, 759 !), Takow (*A. Henry*, 1029 !); YUNNAN: Tapintze (*Delavay*, 403 !); KWANGTUNG: Macao (*da Silva* ! *Calléry* !); LUCHU ARCHIPELAGO (*Beechey* ! *Döderlein* !). Mus. Brit.; Herb. Kew.

Common through the tropical and warmer parts of the world.

23. **Fimbristylis nigro-brunnea**, *Thwaites, Enum. Pl. Zeyl.* p. 434; *C. B. Clarke, in Hook. f. Fl. Brit. Ind.* vi. p. 648.

Fimbristylis subtetrastachya, *Boeck. in Linnæa*, xxxvii. (1871) p. 50.

Fimbristylis pycnostachya, *Hance, in Journ. Bot.* xv. (1877) p. 338.

Abildgaardia Eragrostis, *Boeck. in Linnæa*, xxxvii. (1871) p. 55, pro parte, vix *Nees.*

Trichelostylis sp. n. 20, *herb. Ind. Or. Hook. f. et T. Thoms.*

YUNNAN: Tali (*Delavay*, 414 !).

Originally described from Ceylon and South Madras, this species is abundant in North-east Bengal, extending to Muneypoor, Cambodia, Yunnan and the Nicobars. The Yunnan example is the Khasi form *F. subtetrastachya*, Boeck. This species is difficult to separate from *F. Eragrostis*, Hance, affording one more instance of the uncertain foothold afforded by the phyllotaxis of leaves or glumes as a character to stand upon

24. **Fimbristylis nutans,** *Vahl, Enum.* ii. p. 285; *Kunth, Enum. Pl.* ii. p. 221; *Benth. Fl. Hongk.* p. 391; *Boeck. in Linnæa,* xxxvii. (1871) p. 5; *C. B. Clarke, in Hook. f. Fl. Brit. Ind.* vi. p. 632.

Scirpus nutans, *Retz. Obs.* iv. p. 12.

KWANGTUNG: Canton (*Sampson,* 1161); HONGKONG (*Harland*! *C. Wright,* 575, 576! *Hance,* 1259! *Didrichsen,* 3272!). Mus. Brit.; Herb. Kew.

Southern India, Malaya, Australia to New South Wales.

25. **Fimbristylis podocarpa,** *Hook. f. ex C. B. Clarke, in Hook. f. Fl. Brit. Ind.* vi. p. 638; *Nees, in Wight, Contrib.* p. 98 partim (char. emend.), *et in Hook. et Arn. Bot. Beechey's Voy.* p. 225 partim, *et in Nov. Act. Nat. Cur.* xix. *Suppl.* i. (1843) p. 77, var. γ et α partim nec β.

Fimbristylis communis (forma), *Kunth, Enum. Pl.* ii. p. 234.

Fimbristylis polymorpha (forma), *Boeck. in Linnæa,* xxxvii. (1871) p. 14.

HONGKONG (*Hance,* 1091! *Forbes*!). Mus. Brit.; Herb. Kew.

Frequent in India, extending to Java and the Marianne Isles.

The species, as here understood, is destitute of the 5–7 longitudinal furrows so prominent on each face of the nut in *F. diphylla,* Vahl (*F. communis,* Kunth, or *F. polymorpha,* Boeck.).

In my old Chinese list, this Hance 1091 is noted as in herb. Kew, but I do not now find it. Possibly it is on a mixed sheet somewhere.

26. **Fimbristylis polytrichoides,** *Vahl, Enum.* ii. p. 248 (polythrichoides); *R. Br. Prodr.* p. 226; *Hance, in Journ. Bot.* xvi. (1878) p. 112; *C. B. Clarke, in Hook. f. Fl. Brit. Ind.* vi. p. 632.

Fimbristylis juncea, *Boeck. in Linnæa,* xxxvii. (1871) p. 4, non *Roem. et Schult.*

Scirpus polytrichoides, *Retz. Obs.* iv. p. 11.

Abildgaardia javanica, *Steud. in Zoll. Verz. Ind. Archip.* ii. p. 63, *et Cyp.* p. 72.

FOKIEN: Amoy (*Hance*, 10153!); FORMOSA: Takow (*A. Henry*, 1100!). Mus. Brit.; Herb. Kew.

Tropical Africa, South India, Philippines.

Var. β. **halophila**, *C. B. Clarke, in Hook. f. Fl. Brit. Ind.* vi. p. 632.

Fimbristylis Didrichseni, var. β. minor, *Boeck. in Engl. Jahrb.* vi. (1884) p. 505.

CHUSAN ARCHIPELAGO (*Didrichsen*, 3569!). Herb. Kew.

Calcutta; Madras.

27. **Fimbristylis quinquangularis**, *Kunth, Enum. Pl.* ii. (1837) p. 229; *Boeck. in Linnæa*, xxxvii. (1871) p. 42 (syn. *F. salbundia*, Thwaites, excl.); *C. B. Clarke, in Hook. f. Fl. Brit. Ind.* vi. p. 644.

Fimbristylis salbundia, *Boeck. in Linnæa*, xxxvii. (1871) p. 44.

Scirpus quinquangularis, *Vahl, Enum.* ii. p. 279.

Scirpus miliaceus, *Linn. herb. propr.* (an *Sp. Pl.* ed. ii. p. 75?).

CHEKIANG: Ningpo Mts. (*Faber*, 237!); YUNNAN: Tapintze (*Delavay*, 1763!). Mus. Brit.; Herb. Kew.

Abundant in rice-fields and on banks throughout India and Malaya, extending to the Philippines, Tropical Australia, and Mauritius.

28. **Fimbristylis rigidula**, *Nees, in Wight, Contrib.* p. 99; *C. B. Clarke, in Hook. f. Fl. Brit. Ind.* vi. p. 640; *Hance, in Journ. Linn. Soc., Bot.* xiii. (1873) p. 131, syn. et Thwaitesii exemplo excl.; *Diels, in Engl. Jahrb.* xxix. (1901) p. 229.

Fimbristylis Hanceana, *Boeck. in Linnæa*, xxxviii. (1874) p. 394.

Fimbristylis communis, *Kunth, Enum. Pl.* ii. p. 235 partim.

KIANGSI: Kiukiang (*Shearer*!); HUPEH: Hankow (*Faber*, 1133!), Ichang (*A. Henry*, 545, 1234 partim!); YUNNAN: Mengtze (*A. Henry*, 13728!), Tapintze (*Delavay*, 404, 1755!), Mosoyn (*Delavay*, 4464!); HONGKONG (*Hance*, 1188!). Mus. Brit.; Herb. Kew.

Common in North India, at 1000–5000 feet; also in the Philippines.

The examples named "*rigidula*, Nees," which were in the hands of Kunth and of Boeckeler, were correctly referred by them to our *F. diphylla*, Vahl. The true *F. rigidula*, Nees, is well marked by the woody rhizome and by the many paired spikelets.

29. **Fimbristylis schœnoides,** *Vahl, Enum.* ii. (1806) p. 286; *Kunth, Enum. Pl.* ii. p. 222; *Benth. Fl. Hongk.* p. 391; *Boeck. in Linnæa,* xxxvii. (1871) p. 5, var. β excl.; *C. B. Clarke, in Hook. f. Fl. Brit. Ind.* vi. p. 634.

Fimbristylis bispicata, *Nees, in Wight, Contrib.* p. 97, pro majore parte; *Boeck. in Linnæa,* xxxvii. (1871) p. 6 partim.

Fimbristylis polymorpha, var. depauperata, *Boeck. in Flora,* lviii. (1875) p. 111.

Scirpus schœnoides, *Retz. Obs.* v. p. 14.

Scirpus bispicatus, *Roxb. Hort. Beng.* p. 6, *et Fl. Ind.* i. p. 220.

Abildgaardia nervosa, *Presl, Rel. Haenk.* i. p. 180.

SHANTUNG: Chefoo (*Forbes*!); FORMOSA: Takow (*A. Henry,* 1912!); KWANGTUNG: Canton (*Sampson,* 267!); HONGKONG (*C. Wright,* 578, 580! *Hance,* 7479! *Lamont,* 846!). Mus. Brit.; Herb. Kew.

Common throughout India; extending thence to the Philippines and to Queensland.

30. **Fimbristylis sericea,** *R. Br. Prodr.* p. 228, char. emend.; *Kunth, Enum. Pl.* ii. p. 244; *Boeck. in Linnæa,* xxxvii. (1871) p. 22; *C. B. Clarke, in Hook. f. Fl. Brit. Ind.* vi. p. 641.

Fimbristylis decora, *Nees, in Wight, Contrib.* p. 101, *in Hook. et Arn. Bot. Beechey's Voy.* p. 225, *et in Nov. Act. Nat. Cur.* xix. *Suppl.* i. (1843) p. 83; *Kunth, Enum. Pl.* ii. p. 240; *Henriq. in Bol. Soc. Broter.* ii. (1883) p. 167.

Fimbristylis velutina, *Franch. in Bull. Soc. Bot. France,* xxvi. (1879) p. 88.

Scirpus sericeus, *Poir. Encycl. Suppl.* v. p. 99.

CHINA (*Meyen*! *Millett*! *Parkes*!); FOKIEN: Amoy (*Didrichsen,* 3044!); FORMOSA: Takow (*A. Henry,* 1007, 1008!); KWANGTUNG: Macao (*da Silva*! *Hance,* 10131! *Tate*!), Canton (*Yvan*!), Pakhoi (*Playfair,* 86!); HAINAN (*A. Henry,* 8195!). Mus. Brit.; Herb. Kew.

On sandy sea-shores in South-east Asia and Tropical Australia, extending from Coromandel to Japan.

31. **Fimbristylis Sieboldii,** *Miq. Cat. Mus. Bot. Lugd.-Bat.* (1870) p. 118, name only; *Franch. et Sav. Pl. Jap.* ii. p. 118; *Debeaux, Fl. Tchefou,* p. 149; *Franch. in Mém. Soc. Sc. Nat. Cherb.* xxiv. (1884) p. 263.

Fimbristylis leiocarpa, *Miq. in Ann. Mus. Bot. Lugd.-Bat.* ii. (1865–6) p. 144, non *Maxim.*

SHANTUNG: Chefoo (*Debeaux*!).

Also in Japan.

32. **Fimbristylis spathacea**, *Roth, Nov. Pl. Sp.* p. 24; *Kunth, Enum. Pl.* ii. p. 246; *C. B. Clarke, in Hook. f. Fl. Brit. Ind.* vi. p. 640.

Fimbristylis Wightiana, *Nees, in Wight, Contrib.* p. 99; *Kunth, Enum. Pl.* ii. p. 241; *Benth. Fl. Hongk.* p. 392.

Fimbristylis glomerata, *Nees, in Linnæa,* ix. (1834) p. 290, nomen; *Kunth, Enum. Pl.* ii. p. 246; *Boeck. in Linnæa,* xxxvii. (1871) p. 47 partim, *i. e.* plantis 3-stigmatosis excl.

Fimbristylis rigida, *Kunth, Enum. Pl.* ii. p. 246; *Henriq. in Bol. Soc. Broter.* ii. (1883) p. 167.

Fimbristylis junciformis, *Munro, in Seem. Bot. Voy. 'Herald,'* p. 422, non *Kunth.*

Fimbristylis biumbellata, *Boeck. in Flora,* xli. (1858) p. 603; cf. *Boeck. in Flora,* xliii. (1860) p. 34.

Scirpus glomeratus, *Retz. Obs.* iv. p. 11.

Isolepis rigescens, *Presl, in Oken, Isis,* xxi. (1828) p. 268.

Isolepis Haenkei, *Presl, Rel. Haenk.* i. p. 187 saltem partim.

FORMOSA: Takow (*A. Henry,* 1071, 1071 A, 1834, 1860! *Playfair,* 136!); KWANGTUNG: Macao (*da Silva*!); HONGKONG (*Seemann,* 542! *Munro*! *C. Wright,* 589! *Lamont*! *Hance*!). Mus. Brit.; Herb. Kew.

A common tropical plant near the sea, from Arabia and the Mascarene Isles to the Philippines; also in Trop. America.

Some examples of this have the umbel contracted nearly into a head, and the species has thus been merged into *F. cymosa,* R. Br., by Boeckeler. In the fine specimens of A. Henry (1071, 1834) the umbel is open, compound.

33. **Fimbristylis squarrosa**, *Vahl, Enum.* ii. p. 289; *Kunth, Enum. Pl.* ii. p. 224; *Benth. Fl. Hongk.* p. 392; *Boeck. in Linnæa,* xxxvii. (1871) p. 10; *Debeaux, Fl. Tchefou,* p. 150; *C. B. Clarke, in Hook. f. Fl. Brit. Ind.* vi. p. 635; *Franch. in Mém. Soc. Sc. Nat. Cherb.* xxiv. (1884) p. 263.

Scirpus squarrosus, *Poir. Encyc. Suppl.* v. p. 100, non *Linn.*

Pogonostylis squarrosa, *Bertol. Fl. Ital.* i. p. 312.

SHANTUNG: Chefoo (*Debeaux,* 42! *Fauvel*!); FORMOSA: Tamsui (*Oldham,* 591!); YUNNAN: Tali (*Delavay,* 2629!); HONGKONG (*Harland*! *C. Wright,* 581! *Wilford,* 267!); HAINAN (*Swinhoe*!). Mus. Brit.; Herb. Kew.

A rice-field annual, extending from South Europe to the Cape of Good Hope, from Amurland to New Zealand, from Cuba to Buenos Ayres; but not known in North America.

34. **Fimbristylis Stauntoni**, *Debeaux, Fl. Tchefou* (1877), p. 151, t. 3. fig. 1, char. emend.; *Franch. in Mém. Soc. Sc. Nat. Cherb.* xxiv. (1884) p. 263.

SHANTUNG (*Debeaux*, 144!), Chefoo (*Fauvel*); KIANGSU: Shanghai (*Maingay*, 423 in hb. Kew!); CHEKIANG (*Staunton*!); HUPEH: Ichang (*A. Henry*, 2774!). Mus. Brit.; Herb. Kew.

This is a critical species, characterized by the very parallel-sided oblong nut. The style varies from 2-fid to 3-fid (a rare variation in the genus *Fimbristylis*); I noted at Calcutta that Maingay n. 423 contains *F. Stauntoni* and *F. miliacea* mixed.

35. **Fimbristylis stolonifera**, *C. B. Clarke, in Hook. f. Fl. Brit. Ind.* vi. (1893) p. 637.

YUNNAN: Tapintze (*Delavay*, 1756, 1757, 1768!).

North-east India; plentiful in the hills.

Stolons are very rare in the genus *Fimbristylis*.

36. **Fimbristylis subbispicata**, *Nees et Meyen, in Nov. Act. Nat. Cur.* xix. *Suppl.* i. (1843) p. 75; *Benth. Fl. Hongk.* p. 391; *Hance, in Journ. Bot.* xvii. (1879) p. 16; *C. B. Clarke, in Hook. f. Fl. Brit. Ind.* vi. p. 634.

Fimbristylis japonica, *Sieb. et Zucc. ex Steud. in Zoll. Verz. Ind. Archip.* ii. p. 62, *et Cyp.* p. 107.

Fimbristylis bispicata, *Nees, in Hook. et Arn. Bot. Beechey's Voy.* p. 224, neque in *Wight, Contrib.* p. 97; *Boeck. in Linnæa,* xxxvii. (1871) p. 6 partim.

CHIHLI: Peking (*Hance*), Tachiaotze (*Möllendorff*); SHINGKING: Kinchow (*Ross*, 195!); SHANTUNG (*Debeaux*!), Chefoo (*Forbes*, 391, 392! *Fauvel*! *Schottmueller*, 344!); KIANGSU: Shanghai (*Maingay*, 641, 643, 691!); FOKIEN: Amoy (*Hance*, 998! *Lamont*, 845!); KWANGTUNG: Macao (*Gaudichaud*! *Vachell*! *Calléry*, 380!); HONGKONG (*Harland*, 681! *C. Wright*, 577! *Faurie*, 15775!). Mus. Brit.; Herb. Kew.

Common in Japan; as in China mainly by the sea-side, extending throughout Malaya and to Orissa.

The limits of this species are not settled; Boeckeler places here the mountain form of *F. schœnoides*. The smaller form with the head usually solitary and only $\frac{1}{2}$–$\frac{1}{4}$ in. long is *F. cæsia*, Miq. (Fl. Ind. Bat. iii. p. 315); and to this subspecies or var.

belongs Maingay n. 643. Nees's original *F. bispicata*, founded in Wight, Contrib. 1834, p. 97, was, as Arnott saw, typical *F. schœnoides*; his *F. bispicata*, in Hook. et Arn. Beechey's Voy. p. 224 [published in 1836], was Vachell's plant, *F. subbispicata*. It is preferred, in such confusion by the author himself, to follow Bentham in taking up the later name, *F. subbispicata*.

37. **Fimbristylis tetragona**, *R. Br. Prodr.* p. 226; *Kunth, Enum. Pl.* ii. p. 242; *C. B. Clarke, in Hook. f. Fl. Brit. Ind.* vi. p. 631.

Fimbristylis cylindrocarpa, *Kunth, Enum. Pl.* ii. p. 222; *Boeck. in Linnæa*, xxxvii. (1871) p. 7; *Hance, in Journ. Linn. Soc.* xiii. (1873) p. 132.

Fimbristylis abjiciens, *Steud. in Zoll. Verz. Ind. Archip.* ii. p. 62, *et Cyp.* p. 107.

Fimbristylis Arnottii, *Thwaites, Enum. Pl. Zeyl.* p. 348.

Scirpus tetragonus, *Poir. Encycl. Suppl.* v. p. 98, neque in *Lam. Encycl.* vi. p. 767.

Mischospora efoliata, *Boeck. in Flora*, xliii. (1860) p. 113.

KWANGTUNG: Canton (*Sampson*, 475 !), Wongneichung (*Hance*, 7484 !); HONGKONG (*Lamont*, 846, 854 A !), Lofaushan (*Ford* !). Mus. Brit.; Herb. Kew.

Common throughout India, extending thence to New South Wales and South China.

The example of this in herb. Hance is marked by Hance "*F. schœnoides*, Vahl," to which it bears strong superficial resemblance.

38. **Fimbristylis Thomsonii**, *Boeck. in Linnæa*, xxxvii. (1871) p. 37; *C. B. Clarke, in Hook. f. Fl. Brit. Ind.* vi. p. 646.

Fimbristylis complanata, *Benth. Fl. Hongk.* p. 393, vix *Link.*

Trichelostylis complanata, *Nees, in Hook. et Arn. Bot. Beechey's Voy.* p. 226, non *Nees, in Wight, Contrib.* p. 103.

Trichelostylis sp. n. 12, *herb. Ind. Or. Hook. f. et T. Thoms.*

CHINA (*Millett* !); YUNNAN: Mengtze, 5000 feet (*A. Henry*, 13729 !); KWANGTUNG: Macao (*Vachell*, 61 ! *Lamont*, 52 !); HONGKONG (*Harland* ! *Seemann*, 539 ! *C. Wright*, 583 ! *Hance*, 1188 ! 1255 ! *Furet*, 377 !). Mus. Brit.; Herb. Kew.

Bengal and Assam, frequent; extending thence through Burma to China and Tonkin.

This species is a split-off by Boeckeler from *F. complanata*, Link. Munro had Seemann n. 539, but did not name it; nor do I know how he catalogued it in Bot. Voy. 'Herald.'

39. **Fimbristylis yunnanensis,** *C. B. Clarke*, n. sp.

Undique sparsim tenuiter pilosa. *Culmi* 8–15 unc. longi, graciles, præter basin nudi, monocephali, tenuiter pilosi. *Folia* cum $\frac{1}{3}$–$\frac{1}{2}$ parte culmi æquilonga, $\frac{1}{16}$ unc. lata. *Caput* globosum, $\frac{1}{2}$ unc. in diam., stellatim 7–12-stachyum; bracteæ c. 3, usque ad $\frac{1}{2}$–1 unc. longæ, subsetaceæ. *Spiculæ* $\frac{1}{4}$ unc. longæ, bruneæ, minute pilosæ, 7–10-glumæ, 2–4-nuciferæ. *Glumæ* subdistichæ, naviculares, mucronatæ. *Stylus* linearis, glaber, basi pyramidalis, persistens, rami 3. *Nux* parva, cum $\frac{1}{3}$–$\frac{1}{2}$ parte glumæ æquilonga, obovoidea, rotundo-trigona, obscure reticulata, alba.

YUNNAN: Mengtze, 5000 feet (*A. Henry*, 11150!). Herb. Kew. -7

This species is very closely allied to *F. Actinoschœnus*, the structure of the spikelet being identical.

1. **Bulbostylis barbata,** *Kunth*, ex *C. B. Clarke, in Hook. f. Fl. Brit. Ind.* vi. p. 651; *Palibin, Fl. Koreæ*, iii. (1901) p. 18.

Scirpus barbatus, *Rottb. Descr. et Ic.* p. 52, t. 17. fig. 4; *Hance, in Journ. Linn. Soc., Bot.* xiii. (1873) p. 131; *Boeck. in Linnæa*, xxxvi. (1869–70) p. 751, var. β excl.; *Franch. in Mém. Soc. Sc. Nat. Cherb.* xxiv. (1884) p. 263.

Scirpus capillaris, *Linn. Sp. Pl.* ed. 2, p. 73 partim, nec *Linn. Mant.*; cf. *R. Br. Prodr.* p. 122, in Obs.

Isolepis barbata, *R. Br. Prodr.* p. 222; *Nees, in Hook. et Arn. Bot. Beechey's Voy.* p. 226; *Benth. Fl. Hongk.* p. 393; *Henriq. in Bolet. Soc. Broter.* ii. (1883) p. 67.

Isolepis capillaris, *Debeaux, Fl. Tchefou*, p. 148, fide *Franchet*, non *Rœm. et Schult.*

Fimbristylis barbata, *Benth. Fl. Austral.* vii. p. 321.

SHANTUNG (*Maingay*, 142, 149!), Chefoo (*Fauvel*! *Debeaux*! *Schottmueller*, 300!), Chefoo Mts. (*Faber*, 72!); KIANGSI: Kiukiang (*Shearer*!); FORMOSA: Tamsui (*Oldham*, 590!); YUNNAN: Mosoyn (*Delavay*, 3971!); KWANGTUNG: Macao (*Vachell*!), Whampoa (*Hance*, 996!), Canton (*Sampson*, 644!), Pakhoi (*Playfair*, 210!); HONGKONG (*Harland*! *C. Wright*, 591!); HAINAN (*A. Henry*, 8241!). Mus. Brit.; Herb. Kew.

In tropical and warm regions of the Old World, very common. In South U.S. rare, perhaps only introduced.

2. **Bulbostylis capillaris**, *Kunth*, ex *C. B. Clarke, in Hook. f. Fl. Brit. Ind.* vi. p. 652.

Scirpus capillaris, *Linn. Sp. Pl.* ed. 2, p. 73, pro magnâ parte.

From Canada to Patagonia, abundant.

Var. **trifida**, *C. B. Clarke, in Hook. f. Fl. Brit. Ind.* vi. p. 652.

Bulbostylis trifida, *Kunth, Enum. Pl.* ii. p. 213.

Scirpus capillaris, *Linn. Mant.* p. 321, et herb. propr.; *Franch. in Mém. Soc. Sc. Nat. Cherb.* xxiv. (1884) p. 263.

Scirpus trifidus, *Hance, in Journ. Bot.* xvi. (1878) p. 112.

Isolepis trifida, *Nees, in Wight, Contrib.* p. 108.

Fimbristylis capillaris, *F. Muell. Fragm. Phyt. Austral.* ix. p. 7.

SHANTUNG (*Maingay*, 108 !), Chefoo (*Fauvel* !); CHEKIANG: Ningpo Mts. (*Faber*, 1738 !); SZECHUEN: Tchenkeoutin (*Farges*, 1099 ter !); YUNNAN: Tali (*Delavay*, 3639 !), Tchenfongchan (*Delavay*, 5116 !); KWANGTUNG: Mt. Pakwan (*Hance* !). Mus. Brit.; Herb. Kew.

In tropical and warm countries, very common.

1. **Scirpus Caricis**, *Retz. Fl. Scand.* p. 11; *C. B. Clarke, in Hook. f. Fl. Brit. Ind.* vi. p. 660.

Scirpus compressus, *Pers. Syn.* i. p. 66; *Boeck. in Linnæa*, xxxvi. (1869–70) p. 707.

Schœnus compressus, *Linn. Sp. Pl.* ed. 1, p. 43; ed. 2, p. 65.

Blysmus compressus, *Link, Hort. Berol.* i. p. 278, ii. p. 310; *Kunth, Enum. Pl.* ii. p. 328.

YUNNAN: Mosoyn (*Delavay*, 4463 !), Kanhaytze (*Delavay*).

Common in the Palæarctic Region, extending south to the Himalaya.

2. **Scirpus erectus**, *Poir. in Lam. Encycl.* vi. p. 761; *C. B. Clarke, in Hook. f. Fl. Brit. Ind.* vi. p. 656; *Diels, in Engl. Bot. Jahrb.* xxix. (1901) p. 228.

Scirpus debilis, *Pursh, Fl. Amer. Sept.* i. p. 55; *Kunth, Enum. Pl.* ii. p. 159; *Benth. Fl. Austral.* vii. p. 332.

Scirpus juncoides, *Roxb. Hort. Beng.* p. 81, *et Fl. Ind.* i. p. 216; *Kunth, Enum. Pl.* ii. p. 160; *Benth. Fl. Hongk.* p. 395.

Scirpus luzonensis, *Presl, Rel. Haenk.* i. p. 193; *Nees, in Nov. Act. Nat. Cur.* xix. *Suppl.* i. (1843) p. 93.

Scirpus timorensis, *Kunth, Enum. Pl.* ii. p. 162; *Hance, in Journ. Bot.* xvi. (1878) p. 112.

Scirpus supinus, varr. β, γ, *Boeck. in Linnæa*, xxxvi. (1869–70) p. 600.

CHIHLI: Peking (*Bretschneider* ! *Möllendorff* !); SHANTUNG

(*Maingay*, 159!), Chefoo Mts. (*Faber*, 1517!); KIANGSI: Kiukiang (*Forbes*, 192!); FORMOSA: Takow (*Playfair*, 171! *A. Henry*, 1088!); HUPEH: Ichang (*A. Henry*, 2740, 4212, 4296!), Patung (*A. Henry*, 78!), Yangtzekiang (*Faber*, 1123!); SZECHUEN (*Farges*!); YUNNAN: Tapintze (*Delavay*, 1771, 1778!), Mosoyn (*Delavay*, 4075! rhizomate longius repente); KWANGTUNG: Macao (*Callery*, 426!), Canton (*Nevin*!); HONGKONG (*Wilford* 272! *Harland*!). Mus. Brit.; Herb. Kew.

Extends from Madagascar to Amurland, the Philippines, and Tropical Australia. The American form extends from Georgia to Labrador.

3. **Scirpus Eriophorum**, *Michx. Fl. Bor.-Amer.* i. p. 33 *Boeck. in Linnæa*, xxxvi. (1869–70) p. 731; *C. B. Clarke, in Hook. f. Fl. Brit. Ind.* vi. p. 661; *Boeck. in Engl. Bot. Jahrb.* vi. (1885) p. 51?

Eriophorum cyperinum, *Linn. Sp. Pl.* ed. 2, p. 77; *Benth. et Hook. f. Gen. Pl.* iii. p. 1052.

SHANTUNG: Chefoo Mts. (*Faber*, 68!); CHEKIANG: Tientai Mts. (*Faber*, 70!); HUPEH (*E. H. Wilson*, 1632!), alt. 6700 feet (*E. H. Wilson*, 1637 *a*!); SZECHUEN (*A. Henry*, 8836, 8912!), Tachienlu, alt. 9000–13,500 feet (*Pratt*, 420!); LUCHU ARCHIPELAGO (*Döderlein*). Herb. Kew.

Very common in cooler North America and in Japan, extending to the East Himalaya and Khasi Mountains, where it is frequent.

Bentham and Hooker put this species back into *Eriophorum*, on the stated ground that the setæ are altogether as in *Eriophorum alpinum* and not as in *Scirpus*. I find the setæ in *Scirpus Eriophorum* very slender, setaceous, undivided, as of *S. sylvaticus*, Linn., while in *E. alpinum* the setæ are ligulate, often, sometimes deeply, laciniate. But it may well be held that the whole section of *Scirpus* called *Sylvatici* (= *Seidlia*, genus Opiz) is more nearly allied to *Eriophorum* than to *Scirpus* by the leafy stem and elongate inflorescence.

4. **Scirpus filipes**, *C. B. Clarke*, n. sp.

Glabra. *Rhizoma* robustius, repens. *Culmi* 12–20 unc. longi, graciliores, per totam longitudinem remote nodosi, apice triquetri. *Folia* 8–15 unc. longa, 2 lin. lata. *Umbellæ* radii 1–6, pertenues, inæquales, 1–6-stachyi; *bractea* ima longa (usque ad

1 pedem), suberecta. *Spiculæ* 4 lin. longæ, digitato-fasciculatæ. *Glumæ* elliptico-oblongæ, integræ, in lateribus rubro-bruneæ. *Setæ* 6, nucem superantes, rubro-ferrugineæ, subretrorsim scabræ. *Stylus* 3-fidus. *Nux* parva, anguste obovoidea, apice acuminata, luteo-brunea.

FOKIEN (*De Grijs*, herb. *Hance*, 6695 !). Herb. Kew.

Also, without habitat, herb. Link, 1028 ! herb. Berlin 889 !

From the nodes on the stem, from the acuminate top to the nut, and from the setæ, I should think this species allied to the Japanese *S. fuirenoides*, Maximowicz, but Boeckeler has marked three sheets of it in herb. Berlin " *S. maritimus*, Linn."

5. **Scirpus fuirenoides,** *Maxim. MS. in hb. Kew.*

Glabra, elata. *Culmus* per totam longitudinem nodosus, foliiger. *Folia* saltem 18 unc. longa, 2½ lin. lata, lenta. *Corymbi* longe-pedunculati, in paniculam longam 18 unc. dispositi; terminalis bis compositus radiis radiolisque longis; *bracteæ* cum foliis consimiles, paniculam superantes. *Spiculæ* 5–9nim fasciculatæ, 2½ lin. longæ, 2 lin. latæ (quam in sp. affinibus majores), virides, rubescentes, densæ. *Glumæ* 1 lin. longæ, ellipticæ obtusæ. *Setæ, nux, stylus* omnino ut *S. sylvatici.*

SHANTUNG: Chefoo Mts. (*Faber*, 67 !). Herb. Kew.

Many examples received from Japan.

This is a typical *Seidlia*, *i.e.* one of the *Sylvatici*, and close allied to *S. polystachyus*, F. Muell.; but the spikelets are twice as broad.

6. **Scirpus grossus,** *Linn. f. Suppl.* p. 104; *Presl, Rel. Haenk.* i. p. 195; *Boeck. in Linnæa*, xxxvi. (1869–70) p. 723; *Hook. f. Fl. Brit. Ind.* vi. p. 659.

Hymenochæte grossa, *Nees, in Wight, Contrib.* p. 110.

Isolepis maxima, *A. Dietr. Sp. Pl.* ii. p. 130.

KWANGSI: Lungchow (*A. Henry*, 684 !). Herb. Kew.

Frequent in India, Malaya, extending through Tonkin to the Philippines.

7. **Scirpus lacustris,** *Linn. Sp. Pl.* ed. 1, p. 48, ed. 2, p. 72, et herb. propr.; *Bunge, Enum. Pl. Chin. Bor.* p. 68; *Boeck. in Linnæa*, xxxvi. (1869–70) p. 712; *Regel, Fl. Ussur.* p. 176; *Hook. et Arn. Bot. Beechey's Voy.* p. 98; *C. B. Clarke, in Hook. f. Fl. Brit. Ind.* vi. p. 658.

Scirpus Tabernæmontani, *C. C. Gmel. Fl. Baden.* i. p. 101; *Regel, Fl. Ussur.* p. 176; *Maxim. Prim. Fl. Amur.* p. 298.

Scirpus Meyenii, *Nees, in Linnæa,* ix. (1834) p. 293 nomen, *et in Nov. Act. Nat. Cur.* xix. *Suppl.* i. (1843) p. 293.

CHIHLI: Peking (*Bretschneider,* 796!), Kantai et Tanschan (*Bunge*!); FORMOSA (*A. Henry,* 754, 1028, 1057!), Takow (*A. Henry,* 1059!); YUNNAN: Mengtze 5500 feet (*A. Henry,* 11135!), Szemao, "cultivated for making mats" (*A. Henry,* 12194!); LUCHU ARCHIPELAGO (*C. Wright,* 356!). Mus. Brit.; Herb. Kew.

Frequent in fresh water nearly throughout the world, except South America and Malaya.

8. **Scirpus maritimus,** *Linn. Sp. Pl.* ed. 1, p. 51, ed. 2, p. 74, et herb. propr.; *Bunge, Enum. Pl. Chin. Bor.* p. 68; *Maxim. Prim. Fl. Amur.* p. 298; *Boeck. in Linnæa,* xxxvi. (1869–70) p. 722; *Hook. et Arn. Bot. Beechey's Voy.* p. 98; *Franch. in Mém. Soc. Sc. Nat. Cherb.* xxiv. (1884) p. 262, *et Pl. David.* i. p. 317; *C. B. Clarke, in Hook. f. Fl. Brit. Ind.* vi. p. 658.

CHIHLI: Peking (*Bretschneider,* 784!), Kantai et Tanschan (*Bunge*), Jehol (*David,* 1909!); SHINGKING: Moukden (*Webster,* 104!); NORTH CENTRAL CHINA (*Hugh*!); FORMOSA: Takow (*A. Henry,* 1818!); HUPEH: Yangtzekiang (*Faber,* 1126!). Mus. Brit.; Herb. Kew.

Throughout the Old World, inland as well as near the sea; less common in the tropics. Varieties extend throughout America.

Var. β. **affinis,** *C. B. Clarke, in Hook. f. Fl. Brit. Ind.* vi. p. 659.

Scirpus affinis, *Roth, Nov. Pl. Sp.* p. 30.

Scirpus strobelinus, *Roxb. Hort. Beng.* p. 6, *et Fl. Ind.* i. p. 219.

Scirpus macrostachys, *Boeck. Cyp. Novæ,* i. (1888) p. 19.

Scirpus maritimus, var. (verosimiliter sp.), *Maxim. Prim. Fl. Amur.* p. 299.

SHANTUNG: Chefoo (*Perry*!). Herb. Kew.

This well-marked variety is plentiful in India; extends to Turcomania, Songaria, Amurland, and Burma.

9. **Scirpus Michelianus,** *Linn. Sp. Pl.* ed. 1, p. 52, ed. 2, p. 76; *Franch. in Mém. Soc. Sc. Nat. Cherb.* xxiv. (1884) p. 263; *C. B. Clarke, in Hook. f. Fl. Brit. Ind.* vi. p. 662.

Isolepis Micheliana, *Roem. et Schult. Syst.* ii. p. 114; *Maxim. Prim Fl. Amur.* p. 300; *Debeaux, Fl. Tchefou,* p. 147.

Cyperus pygmæus, var. β, *Boeck. in Linnæa,* xxxv. (1867–8) p. 494, *et in Flora,* liv. (1871) p. 159; *Benth. et Hook. f. Gen. Pl.* iii. p. 1044 pro parte.

Fimbristylis Micheliana, *Reichb. Fl. Germ. Excurs.* p. 75.

CHIHLI: Peking (*Williams,* 12187!); SHINGKING: Moukden (*James*); SHANTUNG (*Staunton*! *Debeaux,* 199!); KIANGSU: Shanghai (*Maingay,* 634! *Faber,* 230!), Tsien Mts. (*Faber,* 1513!); NORTH CENTRAL CHINA: Hukiascien (*Hugh*!); YUNNAN: Tali (*Delavay,* 2628!); KWANGTUNG: Canton (*Debeaux*). Mus. Brit.; Herb. Kew.

Frequent throughout the Palæarctic area, extending in East Asia to Tonkin, Java, and Japan.

10. **Scirpus mucronatus,** *Linn. Sp. Pl.* ed. 1, p. 50, ed. 2, p. 73, pro majore parte et herb. propr.; *Kunth, Enum. Pl.* ii. p. 161; *Boeck. in Linnæa,* xxxvi. (1869–70) p. 703; *C. B. Clarke, in Hook. f. Fl. Brit. Ind.* vi. p. 657; *Diels, in Engl. Bot. Jahrb.* xxix. (1901) p. 228.

Scirpus triangulatus, *Roxb. Hort. Beng.* p. 81, *et Fl. Ind.* i. p. 217; *Hance, MS. in herb. propr.*

Scirpus cognatus, *Hance, in Ann. Sc. Nat.* sér. 4, xv. (1861) p. 228.

FORMOSA: Takow (*A. Henry,* 1190!); HUPEH (*A. Henry,* 4213, 4255!), Ichang (*A. Henry,* 2295, 2930!); KWANGTUNG: Whampoa (*Hance,* 6682!), Canton (*Sampson,* 266!). Mus. Brit.; Herb. Kew.

Old World; extending from Portugal and Madagascar to Japan and New South Wales; abundant in India.

11. **Scirpus radicans,** *Schkuhr, in Usteri, Ann.* iv. (1793) p. 49, t. 1; *Maxim. Prim. Fl. Amur.* p. 299; *Boeck. in Linnæa,* xxxvi. (1869–70) p. 727; *Franch. Pl. David.* i. p. 317.

Scirpus sylvaticus, var. radicans, *Willd. Sp. Pl.* i. p. 308; *Regel, Fl. Ussur.* p. 177.

Seidlia radicans, *Opiz, Natur. Tausch.* ix. p. 349.

CHIHLI: Jehol (*David*).

Common in North Asia, extending west to Germany, east to Japan. It is, in analytical tables, differentiated from *S. sylvaticus* by the pedicellate, not clustered, spikelets. As pedicellate as well as clustered spikelets occur frequently on one culm, there is some confusion in the synonymy, and such examples constitute the *S. sylvatico-radicans*, Baenitz, assumed a hybrid, which it is not. There exist many paper hybrids, made out of analytical tables.

12. **Scirpus Rosthornii**, *Diels, in Engl. Bot. Jahrb.* xxix. (1901) p. 228.

HUPEH: Nan Chuan (*Rosthorn*).

Not seen. One of the *Sylvatici* (*Siedlia*, Opiz), and on account of the 2-fid style placed by Diels next *S. ternatensis*, Miq. (*S. chinensis*, Monro). The general description of Diels, and the habitat, might do for *S. fuirenoides*, Maxim.; but in this the style is always 3-fid.

13. **Scirpus setaceus**, *Linn. Sp. Pl.* ed. 2, p. 73 partim, neque herb. propr.; *Sm. in Sowerby, Engl. Bot.* t. 1693; *Boeck. in Linnæa*, xxxvi. (1869–70) p. 500, varr. β, γ excl.; *C. B. Clarke, in Hook. f. Fl. Brit. Ind.* vi. p. 654.

Isolepis setacea, *R. Br. Prodr.* p. 222.

NORTH CENTRAL CHINA: Thaepeisan (*Hugh*!). Mus. Brit.

Throughout Europe and West Asia; extends to the Cape, India, and Australia.

14. **Scirpus squarrosus**, *Linn. Mant.* p. 181, et herb. propr.; *Boeck. in Linnæa*, xxxvi. (1869–70) p. 734; *Franch. in Mém. Soc. Sc. Nat. Cherb.* xxiv. (1884) p. 263; *C. B. Clarke, in Hook. f. Fl. Brit. Ind.* vi. p. 663.

Scirpus chinensis, *Osbeck, Voy. ed. Forster*, i. p. 354; non *Munro*; cf. *Bretschn. Early Research.* p. 111 [S. sinensis].

Scirpus sp. n. 65, *Rottb. Descr. et Ic.* p. 49, t. 17. fig. 5.

Ascolepis tenuior, *Steud. Cyp.* p. 105.

Lipocarpha microcephala, *Hance, in Ann. Sc. Nat.* sér. 5, v. (1866) p. 249, non *R. Br.*

CHEKIANG (*Staunton*!); KWANGTUNG: Whampoa (*Hance*, 10152!). Mus. Brit.; Herb. Kew.

In the tropical and warm regions of Africa and Asia; widely spread, common in India.

15. **Scirpus Stauntoni**, *C. B. Clarke*, n. sp.

Annua, cæspitosa. *Culmi* 3–4 unc. longi, monocephali. *Folia* cum culmo fere æquilonga, fere setacea, omnia fere ad basin culmi sita. *Caput* 4 lin. in diam., globosum, polystachyum; *bracteæ* 7, setaceæ, usque ad 2½ unc. longæ. *Spiculæ* iis

S. Micheliani similes. *Glumæ* ovatæ, acuminatæ, apice obtusæ. *Setæ* hypogynæ 0. *Stylus* trifidus. *Nux* parvula, obovoidea, acutius, subæqualiter trigona, cellulis extimis quadratis astrictis.

CHEKIANG (*Staunton*!). Mus. Brit.

This may be a variety of *S. Michelianus*; but it does not match it satisfactorily, and the nut is obovoid, instead of oblong with parallel sides and hyaline cells.

16. **Scirpus subcapitatus**, *Thwaites, Enum. Pl. Zeyl.* [1864] p. 351; *Boeck. in Linnæa*, xxxvi. (1869–70) p. 704; *C. B. Clarke, in Hook. f. Fl. Brit. Ind.* vi. p. 661.

Scirpus subaphyllus, *Boeck. MS.*

KIANGSI: Kiukiang (*Shearer*! *Faber*, 1135! *Maries*!). Herb. Kew.

Ceylon and mountains of South India. Also from Malaya, but Dr. Stapf considers the Bornean plant specifically distinct.

17. **Scirpus supinus**, *Linn. Sp. Pl.* ed. 1, p. 49, ed. 2, p. 73, neque herb. propr.; *Boeck. in Linnæa*, xxxvi. (1869–70) p. 699, varr. β, γ excl.; *C. B. Clarke, in Hook. f. Fl. Brit. Ind.* vi. p. 655; *Bretschn. Early Research.* p. 181.

Isolepis supina, *R. Br. Prodr.* p. 221; *Kunth, Enum. Pl.* ii. p. 196; *Benth. Fl. Hongk.* p. 394.

HONGKONG (*Wilford*, 271! *C. Wright*, 590! *Hance*!). Mus. Brit.; Herb. Kew.

Extends from France to South Australia, in all the warmer parts of the Old World; abundant in India. Also a variety in North America.

18. **Scirpus sylvaticus**, *Linn. Sp. Pl.* ed. 1, p. 51, ed. 2, p. 75, et herb. propr.; *Boeck. in Linnæa*, xxxvi. (1869–70) p. 726; *Maxim. Prim. Fl. Amur.* p. 299; *Regel, Fl. Ussur.* p. 177, var. γ excl.

Scirpus microcarpus, *Presl, Rel. Haenk.* i. p. 195.

Seidlia sylvatica, *Opiz, Natur. Tausch.* ix. p. 349.

SHINGKING: Moukden (*James*!).

Through the sub-arctic and cool north temperate zone, extending in America southwards to California.

19. **Scirpus ternatensis**, *Reinw. ex Miq. Fl. Ind. Bat.* iii. p. 307, *et in De Vriese, Pl. Reinw.* p. 140; *C. B. Clarke, in Journ. Linn. Soc., Bot.* xxxiv. (1898) p. 83.

Scirpus chinensis, *Munro, in Seem. Bot. Voy. 'Herald,'* p. 423; *Benth. Fl. Hongk.* p. 395; *C. B. Clarke, in Hook. f. Fl. Brit. Ind.* vi. p. 662; *Diels, in Engl. Bot. Jahrb.* xxix. (1901) p. 228.

Scirpus Eriophorum, var. conglomeratus, *Boeck. MS. in herb. Berol.*

FORMOSA (*A. Henry*, 593!), South Cape (*A. Henry*, 244!); Takow (*A. Henry*, 609!), Tamsui (*Oldham*, 589); HUPEH (*Faber*, 1120!), Ichang (*A. Henry*, 1400, 1854, 3983!); SZECHUEN: Tchenkeoutin (*Farges*, 1099 bis); YUNNAN: Mengtze 6000 feet (*A. Henry*, 10557!), Tchenfongchang (*Delavay*, 5168!), Tapintze (*Delavay*, 1774!), Tali (*Delavay*, 2646, 3525!); HONGKONG (*Seemann*, 545! *C. Wright*, 592! *Ford*, 76!). Mus. Brit.; Herb. Kew.

From the North-west Himalaya to Celebes, the Philippines, and the Bonin Isles; plentiful in the East Himalaya and North Burma.

20. **Scirpus triqueter,** *Linn. Mant.* p. 29; *Kunth, Enum. Pl.* ii. p. 163; *Hance, in Journ. Bot.* xii. (1874) p. 329, et xvii. (1879) p. 16; *Benth. Fl. Austral.* vii. p. 334 in notâ; *Regel, Fl. Ussur.* p. 176; *C. B. Clarke, in Hook. f. Fl. Brit. Ind.* vi. p. 658.

Scirpus Pollichii, *Gren. et Godr. Fl. France,* iii. p. 374; *Boeck. in Linnæa,* xxxvi. (1869–70) p. 711; *Franch. in Mém. Soc. Sc. Nat. Cherb.* xxiv. (1884) p. 262, *et Pl. David.* i. p. 317.

CHIHLI: Peking (*Bretschneider*!), Tachiaotze (*Möllendorff*), Jehol (*David*!); SHINGKING (*Ross*, 47!); SHANTUNG, Chefoo (*Fauvel*); NORTH CENTRAL CHINA: Kusan, Kisaoshiau (*Hugh*!); CHEKIANG: Ningpo (*Faber*, 231!); FORMOSA: Tamsui (*A. Henry*, 1761!); SHENSI: Paokisceen, Mt. Kifousan (*Hugh*!); SZECHUEN: Tcentosen, Mt. Uomisan (*Hugh*!); KWANGTUNG: Canton (*Hance*, 13752!). Mus. Brit.; Herb. Kew.

From Europe to North India, China, Japan. Also has been received from South Africa.

1. **Eriophorum angustifolium,** *Roth, Neue Beitr.* p. 94; *Boeck. in Linnæa,* xxxvii. (1871) p. 95.

Eriophorum polystachion, *Linn. Sp. Pl.* ed. 1, p. 52; ed. 2, p. 56 partim.

Eriophorum polystachion, var. angustifolia, *Regel, Fl. Ussur.* p. 178.

SHINGKING: Moukden (*Webster*!); YUNNAN: Outchay (*Delavay*, 407!).

In the arctic and cool temperate zone throughout the world. Also received from the Transvaal.

2. **Eriophorum comosum,** *Nees, in Wight, Contrib.* p. 110, var. β excl.; *Boeck. in Linnæa,* xxxvii. (1871) p. 98; *C. B. Clarke, in Hook. f. Fl. Brit. Ind.* vi. p. 664; *Diels, in Engl. Bot. Jahrb.* xxix. (1901) p. 228.

Hupeh (*A. Henry,* 7734! *E. H. Wilson,* 538!), Ichang (*A. Henry,* 575, 4000!), Nanto (*A. Henry,* 2623!), Chung city (*Faber,* 1124!); Szechuen (*Faber,* 1130, 1132!), Tcentosen, Mt. Uomisan (*Hugh*!); Yunnan, Tapintze (*Delavay,* 2554, 4568!), Yunnanfu (*Duchoux,* 319!). Mus. Brit.; Herb. Kew.

Abundant in North India, especially at 1000–5000 feet alt.; extending to Burma, Penang, Tonkin.

3. **Eriophorum latifolium,** *Hoppe, Taschenb.* (1800) p. 108; *Maxim. Prim. Fl. Amur.* p. 299; *Boeck. in Linnæa,* xxxvii. (1871) p. 96.

Eriophorum polystachion, *Linn. Sp. Pl.* ed. 1, p. 52, et ed. 2, p. 76 partim.

Shingking: Moukden (*James*).

In the arctic and cool temperate zone, throughout the world.

1. **Fuirena glomerata,** *Lam. Ill.* i. p. 150; *Benth. Fl. Hongk.* p. 396; *Boeck. in Linnæa,* xxxvii. (1871) p. 107; *C. B. Clarke, in Hook. f. Fl. Brit. Ind.* vi. p. 666; *Henriq. in Bolet. Soc. Broter.* ii. (1883) p. 167.

Fuirena Rottboellii, *Nees, in Wight, Contrib.* p. 94, *et in Hook. et Arn. Bot. Beechey's Voyage,* p. 224.

Scirpus ciliaris, *Linn. Mant.* p. 182.

China (*Yvan*!); Formosa: Takow (*A. Henry,* 1084!); Kwangtung: Macao (*da Silva*!), Pakhoi (*Playfair,* 121!); Hongkong (*Wilford,* 274! *C. Wright,* 570!). Mus. Brit.; Herb. Kew.

Hot regions of the Old World, from the Niger to Queensland; abundant throughout India in rice-swamps.

2. **Fuirena umbellata,** *Rottb. Descr. et Ic.* p. 70, t. 19 (*i. e.* t. 18 altera), fig. 3; *Benth. Fl. Hongk.* p. 395; *Nees, in Nov. Act. Nat. Cur.* xix. *Suppl.* i. (1843) p. 74; *Boeck. in Linnæa,*

xxxvii. (1871) p. 110; *C. B. Clarke, in Hook. f. Fl. Brit. Ind.* vi. p. 666.

Fuirena pentagona, *Nees, in Wight, Contrib.* p. 93.

CHINA (*Meyen*, 244! *Millett*!); KWANGTUNG (*Ford*, 183!), Macao (fide *Nees*); HONGKONG (*C. Wright*, 571! *Lamont*, 861!). Mus. Brit.; Herb. Kew.

In tropical and warm-temperate regions throughout the globe, widespread and in quantity, up to 3000 feet alt.

3. **Fuirena Wallichiana**, *Kunth, Enum. Pl.* ii. (1837) p. 182; *C. B. Clarke, in Hook. f. Fl. Brit. Ind.* vi. p. 665.

Fuirena pubescens, *Boeck. in Linnæa*, xxxvii. (1871) p. 104 partim.

Scirpus cuspidatus, *Roth, Nov. Pl. Sp.* p. 31.

YUNNAN: Mengtze, 6000 feet (*A. Henry*, 9327!). Herb. Kew.

In North India; but not known from the eastern side.

1. **Lipocarpha argentea**, *R. Br. in Append. Tuckey, Congo*, p. 459; *Benth. Fl. Hongk.* p. 388; *Boeck. in Linnæa*, xxxvii. (1871) p. 114 (exempl. Amer. excl.); *C. B. Clarke, in Hook. f. Fl. Brit. Ind.* vi. p. 667.

Hypaelyptum argenteum, *Vahl, Enum.* ii. p. 283.

Kyllinga albescens, *Steud. Cyp.* p. 68.

FOKIEN: Amoy (*Hance*, 1404!); HONGKONG (*Wilford*, 270! *C. Wright*, 568!); YUNNAN: Kichau, 6000 feet (*Delavay*, 4034!). Mus. Brit.; Herb. Kew.

Throughout the tropical and subtropical regions of the Old World, from the Niger to the Philippines and Queensland; common in India up to 5000 feet alt.

2. **Lipocarpha microcephala**, *Kunth, Enum. Pl.* ii. p. 268; *Benth. Fl. Hongk.* p. 388; *Boeck. in Linnæa*, xxxvii. (1871) p. 118; *Debeaux, Fl. Tchefou*, p. 146, t. 3. fig. 2; *Franch. in Mém. Soc. Sc. Nat. Cherb.* xxiv. (1884) p. 264; *C. B. Clarke, in Hook. f. Fl. Brit. Ind.* vi. p. 668; *Diels, in Engl. Bot. Jahrb.* xxix. (1901) p. 227.

Hypaelyptum microcephalum, *R. Br. Prodr.* p. 220.

Ascolepis kyllingioides, *Steud. in Zoll. Verz. Pfl. Ind. Archip.* ii. p. 63, *et Cyp.* p. 105 pro magnâ parte.

Scirpus leptocarpus, *F. Muell. in Trans. Phil. Soc. Vict.* i. (1855) p. 109.

Isolepis squarrosa, *Miq. in Ann. Mus. Bot. Lugd.-Bat.* ii. (1865–6) p. 211, non *Roem. et Schult.*

SHANTUNG: Chefoo (*Debeaux*, *Fauvel*); HUPEH: Ichang (*A. Henry*, 4542!); HONGKONG (*Wilford*!). Mus. Brit.; Herb. Kew.

Eastern Asia; from Japan to Singapore, Macassar, Queensland.

1. **Hypolytrum latifolium**, *Rich. in Pers. Syn.* i. p. 70; *Benth. Fl. Hongk.* p. 389; *C. B. Clarke, in Hook. f. Fl. Brit. Ind.* vi. p. 678, vix *Boeck.*

Tunga diandra, *Roxb. Fl. Ind.* i. p. 184.

Aibikkia scirpoides *et* A. schœnoides, *Presl, Rel. Haenk.* i. p. 185, tt. 34, 35.

FORMOSA (*Oldham*, 592!); KWANGTUNG: Canton (*Hance*, 1368!); HONGKONG (*Harland*, 1031! *C. Wright*, 569! *Lamont*, 838!), Lofaushan (*Ford*!); HAINAN (*A. Henry*!). Mus. Brit.; Herb. Kew.

Plentiful in India, extending to Queensland and Polynesia. The representative Mascarene species is hardly separate; and Boeckeler unites also the Tropical African *A. nemorum*, Beauv.

1. **Lepironia mucronata**, *Rich. in Pers. Syn.* i. p. 70; *Boeck. in Linnæa*, xxxvii. (1871) p. 140; *Hance, in Journ. Bot.* xvii. (1879) p. 100; *Goebel, in Ann. Jard. Bot. Buitenz.* vii. (1888) p. 126, t. 14. figg. 12, 13; *C. B. Clarke, in Hook. f. Fl. Brit. Ind.* vi. p. 684.

Restio articulatus, *Retz. Obs.* iv. p. 14.

Scirpus coniferus, *Poir. in Lam. Encycl.* vi. p. 756, *et Suppl.* v. p. 90.

Chondrachne articulata, *R. Br. Prodr.* p. 220.

Choricarpa aphylla, *Boeck. in Flora*, xli. (1858) p. 20.

HONGKONG (*Luettjens*!); KWANGTUNG (*Hance*!). Mus. Brit.

Spread from Mascarenia to New South Wales and Viti, a maritime plant. Hance says that, in Kwangtung, it was only cultivated for the making of mats.

1. **Remirea maritima**, *Aubl. Pl. Guian.* i. p. 45, t. 16; *Kunth, Enum. Pl.* ii. p. 139; *Boeck. in Linnæa*, xxxv. (1867–8) p. 435; *C. B. Clarke, in Hook. f. Fl. Brit. Ind.* vi. p. 677.

Miegia maritima, *Willd. Sp. Pl.* i. p. 311.

Mariscus capitatus, *Steud. in Zoll. Verz. Ind. Archip.* ii. p. 63, *et Cyp.* p. 60.

Mariscus pungens, *Miq. Fl. Ind. Bat.* iii. p. 288.

Mariscus maritimus, *Miq. Fl. Ind. Bat., Suppl.* p. 600.

Cyperus Kegelianus, *Steud. Cyp.* p. 60.

Lipocarpha foliosa, *Miq. Fl. Ind. Bat.* iii. p. 332, *et Suppl.* p. 262.

CHINA (*Millett*!); KWANGTUNG: Canton (*Yvan*!). Herb. Kew.

On tropical sea-coasts throughout the world.

There are many other synonyms.

1. **Rynchospora aurea,** *Vahl, Enum.* ii. p. 229; *C. B. Clarke, in Hook. f. Fl. Brit. Ind.* vi. p. 670.

Rhynchospora aurea, *R. Br. Prodr.* p. 230; *Benth. Fl. Hongk.* p. 396; *Boeck. in Linnæa,* xxxvii. (1873) p. 626.

Rhynchospora articulata, *Spreng. Syst.* i. p. 197.

Scirpus corymbosus, *Linn. Amœn. Acad.* iv. p. 303.

Cephaloschœnus articulatus, *Nees, in Wight, Contrib.* p. 115.

FORMOSA: Takow (*A. Henry*, 1843!); HONGKONG (*Harland*!); HAINAN (*A. Henry*, 8551!). Mus. Brit.; Herb. Kew.

Throughout the world in and near the tropics, in swamps.

2. **Rynchospora Faberi,** *C. B. Clarke,* n. sp.

Annua. *Culmi* 4–12 unc. longi, graciles. *Folia* setacea aut fere capillacea. *Corymbi* 2½–4 lin. in diam., distantes, 3–5-stachyi. *Spiculæ* 1½ lin. longæ, bruneæ, 1-floræ. *Setæ* 6, cum nuce subæquilongæ, rigidæ, pallide bruneæ, dense retrorsim scabræ. Nux ¾ lin. longa, obovoidea, luteo-brunea, obscure transversim undulata; rostrum cum ½ parte nucis æquilongum.

CHEKIANG: Lu Mts., 3300 feet (*Faber*, 247!). Herb. Kew.

This species is allied to ***R. capillacea*** and ***R. Knieskernii***, but has the nut much broader.

3. **Rynchospora glauca,** *Vahl, Enum.* ii. p. 233; *C. B. Clarke, in Hook. f. Fl. Brit. Ind.* vi. p. 671.

Rhynchospora glauca, *Roem. et Schult. Syst.* i. p. 85; *Boeck. in Linnæa,* xxxvii. (1873) p. 585, forma "majore" excl.

Rhynchospora laxa, *R. Br. Prodr.* p. 230.

SHANTUNG: Chefoo Mts. (*Faber*, 286!). Herb. Kew.

Common throughout the world in the tropics and warm temperate zone.

Var. *β*. **chinensis,** *C. B. Clarke, in Hook. f. Fl. Brit. Ind.* vi. p. 672.

Rhynchospora chinensis, *Boeck. in Linnæa*, xxxvii. (1873) p. 586.

Rhynchospora triflora, *Nees, in Linnæa*, ix. (1834) p. 297, e *Nees, in Nov. Act. Nat. Cur.* xix. *Suppl.* i. (1843) p. 124 *b*, *nec Vahl.*

Rhynchospora glauca, *Boeck. in Linnæa*, xxxvii. (1873) p. 585 partim.

Rhynchospora lavarum, *Hook. et Arn. Bot. Beechey's Voy.* p. 98, *non Gaudich.*

Rhynchospora laxa, *Benth. Fl. Hongk.* p. 397.

CHINA (*Meyen* !); CHEKIANG: Ningpo Mts. (*Faber*, 228, 229 !); HONGKONG (*C. Wright*, 595 ! *Wilford*, 277 ! *Hance*, 1071 ! *Faber*, 1886 ! *Didrichsen*, 3271 !). Mus. Brit.; Herb. Kew.

Scattered from Madagascar to the Sandwich Isles.

[*R. chinensis*, Nees (in Nov. Act. Nat. Cur. xix. Suppl. i. (1843) p. 108), is founded on a plant collected at Cape Syngmun by Meyen, and is characterized by having 8–9 retrorsely scabrid setæ. It could therefore have been no known species except *R. alba*, Vahl, which though unknown from China is very common in Japan. But from the way this species is united by Nees with Indian known plants, and from Boeckeler's way of dealing, it seems probable that the description by Nees was radically erroneous.]

4. **Rynchospora gracillima,** *C. B. Clarke, in Hook. f. Fl. Brit. Ind.* vi. p. 671.

Rhynchospora gracillima, *Thwaites, Enum. Pl. Zeyl.* p. 435; *Boeck. in Linnæa*, xxxvii. (1873) p. 597.

Rhynchospora Kamphoeveneri, *Boeck. in Engl. Bot. Jahrb.* v. (1884) p. 508.

HONGKONG (*Lamont* !). Mus. Brit.

Ceylon, Tinnevelly, Khasia, Nicobars.

5. **Rynchospora Wallichiana,** *C. B. Clarke, in Hook. f. Fl. Brit. Ind.* vi. (1893) p. 668.

Rhynchospora Haenkei, *Presl, Rel. Haenk.* i. (1828) p. 199; *Kunth, Enum. Pl.* ii. p. 290.

Rhynchospora Wallichiana, *Kunth, Enum. Pl.* ii. p. 289; *Benth. Fl. Hongk.* p. 396; *Boeck. in Linnæa*, xxxvii. (1873) p. 542 (exempl. Amer. excl.), *in Engl. Bot. Jahrb.* vi. (1885) p. 51; *Henriq. in Bolet. Soc. Broter.* ii. (1883) p. 167.

Morisia Wallichii, *Nees, in Edinb. New Phil. Journ.* (1834) n. 34, p. 265.

Haplostylis Meyenii, *Nees, in Edinb. New Phil. Journ.* (1834) n. 34, p. 265, *et in Hook. et Arn. Bot. Beechey's Voy.* p. 227.

Sphæroschœnus Wallichii, *Arn. et Nees, in Nov. Act. Nat. Cur.* xix. *Suppl.* i. (1843) p. 97.

Cephaloschœnus parvus, *Nees, in Linnæa,* ix. (1834) p. 295, *et in Nov. Act. Nat. Cur.* xix. *Suppl.* i. (1843) p. 100.

China (*Millett* !); Yunnan: Mengtze, 5000 feet (*A. Henry,* 11150 partim !); Kwangtung (*Meyen* ! *Ford,* 181 !), Pakhoi (*Playfair,* 207 !); Hongkong (*C. Wright,* 596 ! *Harland* ! *Hance,* 1237 ! *Didrichsen,* 3208 ! *Champion,* 539 ! *Faurie,* 15831 !); Luchu Archipelago (*Döderlein* !). Mus. Brit.; Herb. Kew.

Old World, in the tropics and warm regions, from the Niger to Queensland and Japan.

1. **Schœnus apogon,** *Roem. et Schult. Syst.* ii. p. 77.

Schœnus imberbis, *Poir. Encyc. Suppl.* ii. p. 251, nec p. 250, nec *R. Br.*

Schœnus Brownii, *Hook. f. Handb. Fl. New Zeal.* p. 298; *Benth. Fl. Austral.* vii. p. 373.

Chætospora imberbis, *R. Br. Prodr.* p. 233; *Boeck. in Linnæa,* xxxviii. (1874) p. 299.

Chætospora japonica, *Franch. et Sav. Enum. Pl. Jap.* ii. pp. 122, 548.

Isolepis margaritifera, *Nees, in Ann. Nat. Hist.* ser. 1, vi. (1849) p. 46.

Scirpus margaritiferus, *Boeck. in Linnæa,* xxxvi. (1869–70) p. 697.

Luchu Archipelago (*C. Wright,* 360 !). Herb. Kew.

Frequent in Australia and New Zealand; also on Kinabalu, in Borneo.

2. **Schœnus falcatus,** *R. Br. Prodr.* (1810) p. 232; *Kunth, Enum. Pl.* ii. p. 336; *Benth. Fl. Austral.* vii. p. 372.

Schœnus elatus, *Boeck. in Flora,* lviii. (1875) p. 117.

Formosa: Takow (*A. Henry,* 1943 !), Ape's Hill (*Playfair,* 395 !). Herb. Kew.

Tropical Australia and Queensland; Borneo.

1. **Lepidosperma chinense,** *Nees, in Linnæa,* ix. (1834) p. 302, *et in Hook. et Arn. Bot. Beechey's Voy.* p. 228, *et in Nov. Act. Nat. Cur.* xix. *Suppl.* i. (1843) p. 117; *Kunth, Enum. Pl.* ii. p. 320; *Benth. Fl. Hongk.* p. 398; *Seem. Bot. Voy. 'Herald,'* p. 422; *Boeck. in Linnæa,* xxxviii. (1874) p. 329 (L. confini excl.); *C. B. Clarke, in Hook. f. Fl. Brit. Ind.* vi. p. 676.

China (*Millett* ! *Schottmueller,* 414 ! *O. Kuntze,* 3163 !); Kwangtung (*Seemann,* 2399 !), Macao (*Vachell,* 39 *b* !), Cape

Syngmun (*Meyen* !); HONGKONG (*Hinds* ! *Seemann* ! *Fortune* ! *Wilford*, 275 ! *Harland*, 682 ! *Hance*, 999 !). Mus. Brit.; Herb. Kew.

Also on Mt. Ophir, near Malacca.

1. **Cladium ensigerum**, *Hance, in Journ. Bot.* xxiii. (1885) p. 80.

HONGKONG: Pokfulum (*Ford* !). Herb. Kew.

Only one sheet of excellent specimens known.

2. **Cladium glomeratum**, *R. Br. Prodr.* p. 237; *Benth. Fl. Austral.* vii. p. 404; *C. B. Clarke, in Hook. f. Fl. Brit. Ind.* vi. p. 575, non *Baumea glomerata*, Gaudich.

Chapelliera glomerata, *Nees, in Lehm. Pl. Preiss.* ii. p. 76; *Franch. et Sav. Pl. Jap.* ii. p. 121.

Baumea rubiginosa *et* B. Brownei, *Boeck. in Linnæa*, xxxviii. (1874) pp. 241, 242.

HONGKONG (*Faber*, 226 ! *Faurie*, 15792 !). Herb. Kew.

Australia and New Zealand, extending to Bengal and Japan.

3. **Cladium jamaicense**, *Crantz, Inst.* i. p. 362.

Cladium germanicum, *Schrad. Fl. Germ.* i. t. 5. fig. 7.

Cladium Mariscus, *R. Br. Prodr.* p. 236; *Benth. Fl. Hongk.* p. 397; *Boeck. in Linnæa*, xxxviii. (1874) p. 232; *Hook. f. Fl. Brit. Ind.* vi. p. 673.

Cladium leptostachyum, *Nees, in Linnæa*, ix. (1834) p. 301, *et in Nov. Act. Nat. Cur.* xix. *Suppl.* i. (1843) p. 115.

Cladium chinense, *Nees, in Linnæa*, ix. (1834) p. 301, *et in Hook. et Arn. Bot. Beechey's Voy.* p. 227, *et in Nov. Act. Nat. Cur.* xix. *Suppl.* i. (1843) p. 116; *Hance, in Journ. Linn. Soc., Bot.* xiii. (1873) p. 132.

Schœnus Mariscus, *Linn. Sp. Pl.* ed. 1, p. 42; ed. 2, p. 62.

Gahnia Mariscus, *F. Muell. Key Victoria Pl.* i. p. 456.

KWANGTUNG: Macao (*Vachell*, 59 !); HONGKONG (*Hance*, *Ford*, 75 !). Mus. Brit.; Herb. Kew.

Extends from Sweden to the Cape of Good Hope, from Japan to Victoria, from New Orleans to Rio Janeiro; also throughout Polynesia; but absent in India and West Malaya.

1. **Gahnia javanica**, *Moritzi, Verz. Zoll. Pfl.* (1845–6) p. 98; *Boeck. in Linnæa*, xxxviii. (1874) p. 339; *C. B. Clarke, in Hook. f. Fl. Brit. Ind.* vi. p. 676.

Phakellanthus multiflorus, *Steud. in Zoll. Verz. Ind. Archip.* ii. p. 61.

YUNNAN: Mengtze, 7000 feet (*A. Henry*, 9168!). Herb. Kew.

In Malaya frequent; extending to New Guinea and Viti. Also a variety from Penang and Singapore.

2. **Gahnia tristis**, *Nees, in Linnæa*, ix. (1834) p. 301 (nomen), *in Hook. et Arn. Bot. Beechey's Voy.* p. 228; *Benth. Fl. Hongk.* p. 398.

Gahnia Wichurai, *Boeck. in Linnæa*, xxxviii. (1874) p. 348.

KWANGTUNG: Macao (*Vachell*, 39 c!); HONGKONG (*Wilford*, 276! *Harland*, 742! *C. Wright*, 397! *Faurie*, 15858!). Mus. Brit.; Herb. Kew.

Received also from Singapore, Anam, Borneo.

1. **Scleria annularis**, *Kunth, Enum. Pl.* ii. p. 359; *Boeck. in Linnæa*, xxxviii. (1874) p. 456; *C. B. Clarke, in Hook. f. Fl. Brit. Ind.* vi. p. 687.

Hypoporum annulare, *Nees, in Linnæa*, ix. (1834) p. 303 nomen.

HUPEH: Ichang (*A. Henry*, 4253!). Herb. Kew.

Scattered throughout India. Also in the Philippines.

2. **Scleria biflora**, *Roxb. Hort. Beng.* p. 66, *et Fl. Ind.* iii. p. 573: *C. B. Clarke, in Hook. f. Fl. Brit. Ind.* vi. p. 687.

Scleria Steudeliana, *Miq. Fl. Ind. Bat.* iii. p. 344, *et Suppl.* p. 262; *Boeck. in Linnæa*, xxxviii. (1874) p. 475.

Scleria tessellata, *Benth. Fl. Hongk.* p. 399, *non Willd.*

HONGKONG (*Hance*, 5232!). Mus. Brit.; Herb. Kew.

Frequent in India and Malaya. But hardly differs from *S. tessellata* except in the minute character taken from the lobes of the disc.

3. **Scleria chinensis**, *Kunth, Enum. Pl.* ii. (1837) p. 357; *Benth. Fl. Hongk.* p. 400; *Boeck. in Linnæa*, xxxviii. (1874) p. 486; *C. B. Clarke, in Hook. f. Fl. Brit. Ind.* vi. p. 690 (*Ridley*, n. 1556 excl.).

Scleria ciliaris, *Nees, in Wight, Contrib.* (1834) p. 117, *et in Hook. et Arn. Bot. Beechey's Voy.* p. 229, *non Mich.*

Scleria scrobiculata, *Moritzi, Verz. Zoll. Pfl.* p. 98 partim.

CHINA (*Beechey*! *Hinds*!); KWANGTUNG: Macao (*Vachell*, 40! *Calléry*!); HONGKONG (*Champion*, 291! *Wilford*, 47! *C. Wright*, 601! *Harland*, 736! *Hance*, 840, 1054! *Faurie*, 15808!). Mus. Brit.; Herb. Kew.

Also in Malaya, to Singapore and Queensland. This species differs but little from *S. scrobiculata*, Nees.

4. **Scleria elata**, *Thwaites, Enum. Pl. Zeyl.* p. 353 (Thwaites, n. 825 excl.); *Boeck. in Linnæa*, xxxviii. (1874) p. 487; *Hance, in Journ. Bot.* xvii. (1879) p. 16; *C. B. Clarke, in Hook. f. Fl. Brit. Ind.* vi. p. 690.

Scleria Rinkiana, *Boeck. Cyp. Novæ*, ii. p. 30.
Diaphora cochinchinensis, *Lour. Fl. Cochinch.* p. 709.

Formosa: South Cape (*A. Henry*, 608!); Kwangtung: Mts. Pakwan (*Sampson*! hb. *Hance*, 12962!). Mus. Brit.; Herb. Kew.

This species, abundant in India, extends through Malaya to New Guinea. It differs little from *S. scrobiculata* but by the conspicuously 3-winged sheaths to the leaves. Henry's n. 608 may be called var. *decolorans*, C. B. Clarke (in Hook. f. Fl. Brit. Ind. vi. p. 690); while Hance n. 12962 has the middle stem-leaves approximated in twos or threes, and may therefore be named *S. scrobiculata* by some.

5. **Scleria Harlandi**, *Hance, in Ann. Sc. Nat.* sér. 5, v. (1866) p. 248, *et in Journ. Linn. Soc., Bot.* xiii. (1873) p. 133.

Scleria purpurascens, *Benth. Fl. Hongk.* p. 400, *non Steud.*

Hongkong (*Harland*, 735! *Lamont*, 875!). Mus. Brit.; Herb. Kew.

6. **Scleria hebecarpa**, *Nees, in Wight, Contrib.* p. 117; *Kunth, Enum. Pl.* ii. p. 357; *Hance, in Ann. Sc. Nat.* sér. 5, v. (1866) p. 249; *Boeck. in Linnæa*, xxxviii. (1874) p. 478; *C. B. Clarke, in Hook. f. Fl. Brit. Ind.* vi. p. 689.

Scleria japonica, *Steud. Cyp.* p. 169.
Scleria aspera, *Boeck. in Linnæa*, xxxviii. (1874) p. 483 partim.
Scleria Wichurai, *Boeck. in Engl. Bot. Jahrb.* v. (1884) p. 510.

Chekiang: Ningpo Mts. (*Faber*, 288 bis!); Yunnan: Sye-
? – moo, 5000 feet (*A. Henry*, 12230!); Kwangtung: Macao (*Abel*), Whampoa (*Hance*, 10112!), Lofaushan (*Ford*, 188!), Pakhoi (*Playfair*, 146!); Kwangsi: Lungchow (*A. Henry*, 690!); Hainan (*A. Henry*, 8009!). Mus. Brit.; Herb. Kew.

Common in India, extending thence to Japan, Viti, and New South Wales.

Var. β. **pubescens**, *C. B. Clarke, in Hook. f. Fl. Brit. Ind.* vi. p. 689.

Scleria pubescens, *Steud. in Zoll. Verz. Ind. Archip.* ii. p. 61, *et Cyp.* p. 168; *Benth. Fl. Hongk.* p. 400.

Scleria hebecarpa, *Munro, in Seem. Bot. Voy. 'Herald,'* p. 423.

Scleria vestita, *Boeck. in Linnæa*, xxxviii. (1874) p. 482.

Hupeh: Ichang (*A. Henry*, 4095!); Kwangtung: Lofaushan (*Ford*, 123!); Hongkong (*C. Wright*, 600! *Harland*!). Mus. Brit.; Herb. Kew.

Frequent in North-east India; also in Java.

Boeckeler founded his *S. vestita* on Hance, n. 1157, which number is in herb. Kew *S. Radula*. But, as before noted, the Hance numbers are not of collections, but of names in a list.

7. **Scleria Hookeriana**, *Boeck. in Linnæa*, xxxviii. (1874) p. 498; *C. B. Clarke, in Hook. f. Fl. Brit. Ind.* vi. p. 691.

Hupeh (*E. H. Wilson*, 1633!); Yunnan: Tchenfongchan (*Delavay*!), Szemao, 5000 feet (*A. Henry*, 12230 A!). Herb. Kew.

Plentiful in Khasia and Manipur.

8. **Scleria lithosperma**, *Swartz, Prodr.* p. 18, *et Fl. Ind. Occ.* i. p. 92 in notâ; *Kunth, Enum. Pl.* ii. p. 349; *Benth. Fl. Hongk.* p. 399; *Boeck. in Linnæa*, xxxviii. (1874) p. 451; *Henriq. in Bol. Soc. Broter.* ii. (1883) p. 167; *C. B. Clarke, in Hook. f. Fl. Brit. Ind.* vi. p. 685.

Scleria filiformis, *Swartz, Prodr.* p. 19, *et Fl. Ind. Occ.* i. p. 91; *Kunth, Enum. Pl.* ii. p. 348.

Scirpus lithospermus, *Linn. Sp. Pl.* ed. 1, p. 51.

Schœnus lithospermus, *Linn. Sp. Pl.* ed. 2, p. 65 pro parte.

Olyra orientalis, *Lour. Fl. Cochinch.* ii. p. 674.

Kwangtung: Macao (*da Silva*); Hongkong (*Harland*! *C. Wright*, 598!). Mus. Brit.; Herb. Kew.

In the tropics of both hemispheres. Boeckeler places the Hongkong plant as a variety of the American *S. filiformis*, Swartz; but I consider the Hongkong plant identical with the Indian.

9. **Scleria margaritifera**, *Willd. Sp. Pl.* iv. p. 312; *Kunth, Enum. Pl.* ii. p. 341; *Boeck. in Linnæa*, xxxviii. (1874) p. 511.

Scleria polycarpa, *Boeck. in Linnæa*, xxxviii. (1874) p. 509.

Scleria Græffeana, *Boeck. in Flora*, lviii. (1875) p. 121.

Scleria Doederleiniana, *Boeck. in Engl. Bot. Jahrb.* vi. (1885) p. 51.

Carex lithosperma, *Forst. f. Prodr. Fl. Ins. Austral.* p. 65.

LUCHU ARCHIPELAGO (*Döderlein* !).

Also in Ladrones, Viti, Samoa, Solomon Isles, Tanna, North-east Australia.

10. **Scleria pergracilis**, *Kunth, Enum. Pl.* ii. (1837) p. 354; *Boeck. in Linnæa*, xxxviii. (1874) p. 438; *C. B. Clarke, in Hook. f. Fl. Brit. Ind.* vi. p. 685.

Hypoporum pergracile, *Nees, in Edinb. Phil. Journ.* xvii. (1834), p. 267, *et in Wight, Contrib.* p. 118.

YUNNAN (*Delavay*, 1557 !), Tapintze (*Delavay*, 1657 !), Mosoyn (*Delavay*, 4039 !), Hokin (*Delavay*, 2490 !).

In tropical and warm-temperate Africa and India.

11. **Scleria Radula**, *Hance, in Ann. Sc. Nat.* sér. 4, xviii. (1862) p. 232, *et in Journ. Linn. Soc., Bot.* xiii. (1873) p. 133; *C. B. Clarke, in Hook. f. Fl. Brit. Ind.* vi. p. 691.

Scleria lævis, var. scaberrima, *Benth. Fl. Hongk.* p. 400, *non* S. levis, *Retz.*

Scleria aspera, *Boeck. in Linnæa*, xxxviii. (1874) p. 483 partim.

CHINA (*Meyen*); HONGKONG (*Harland*, 730 !). Mus. Brit.; Herb. Kew.

Also in Perak.

12. **Scleria Ridleyi**, *C. B. Clarke, in Hook. f. Fl. Brit. Ind.* vi. (1893) p. 686.

Scleria lævis, *Hance, in Ann. Sc. Nat.* sér. 4, xviii. (1862) p. 232; *Benth.* ! *Fl. Hongk.* p. 400, not of *Retz.*

HONGKONG (*Hance*, 2985 ! *Naumann*). Mus. Brit.; Herb. Kew.

Singapore.

13. **Scleria scrobiculata**, *Nees, in Wight, Contrib.* p. 117, *et in Nov. Act. Nat. Cur.* xix. *Suppl.* i. (1843) p. 119; *Kunth, Enum. Pl.* ii. p. 342; *Boeck. in Linnæa*, xxxviii. (1874) p. 508.

Scleria tessellata, *Decne. in Nouv. Ann. Mus.* iii. (1834) p. 362, non *Willd.*

Scleria Neesiana, *Hook. et Arn. Bot. Beechey's Voy.* p. 229, nec S. Neesii, *Kunth.*

Scleria waigiouensis, *Steud. Cyp.* p. 173.

Scleria keyensis, *K. Schum. in Engl. Bot. Jahrb.* xiii. (1891) p. 267.

China (*Beechey*! *Meyen*!); Formosa (*Oldham*, 594! *A. Henry*, 478!); Yunnan: Mengtze, 6000 feet (*A. Henry*, 10484!).—— ? Mus. Brit.; Herb. Kew.

A. Henry notes on his n. 478, "Used for making brooms": on his n. 10484 "Was 9 ft. 1 in. high, leaves mostly in the upper half"; the specimen is very young, and may or may not be *S. scrobiculata*.

Frequent in Malaya, from Java to the Philippines and New Guinea.

14. **Scleria tessellata**, *Willd. Sp. Pl.* iv. p. 315, tab. Rumphii citatâ excl.; *Kunth, Enum. Pl.* ii. p. 343; *Boeck. in Linnæa*, xxxviii. (1874) p. 470, *nec Boeck. in Flora*, lxii. (1879) p. 571; *C. B. Clarke, in Hook. f. Fl. Brit. Ind.* vi. p. 686; non *Benth.*

Chekiang: Ningpo Mts. (*Faber*, 288!); Yunnan: Tchenfongchan (*Delavay*!). Herb. Kew.

Plentiful in India; frequent in Japan; occurs scattered southward to Queensland.

1. **Diplacrum caricinum**, *R. Br. Prodr.* p. 241; *Kunth, Enum. Pl.* ii. p. 360; *Boeck. in Linnæa*, xxxviii. (1874) p. 434; *Goebel, in Ann. Jard. Buitenz.* vii. (1888) p. 132, t. 15. figg. 21–29.

Scleria caricina, *Benth. Fl. Austral.* vii. p. 426; *Benth. et Hook. f. Gen. Pl.* iii. p. 1071; *C. B. Clarke, in Hook. f. Fl. Brit. Ind.* vi. p. 688.

Hongkong (*Lamont*, 869 A!, *Hance*, 9932!). Mus. Brit.; Herb. Kew.

Frequent in India, extending thence to the Philippines and Queensland.

1. **Kobresia cercostachys**, *C. B. Clarke, MS.*

Carex cercostachys, *Franch. in Bull. Soc. Philom. Paris*, sér. 8, vii. (1894) p. 27, *in Nouv. Arch. Mus.* sér. 3, viii. (1896) pp. 191, 209.

Szechuen: Tachienlu, 9000–13,500 feet (*Pratt*, 741!); Yunnan: Yengtzehay, 12,250 feet (*Delavay*, 3403!). Herb. Kew.

2. **Kobresia fragilis**, *C. B. Clarke*, n. sp.

Culmi 12–16 unc. longi, graciliores, teretes. *Folia* omnia basalia, cum $\frac{1}{3}$ parte culmi vix æquilonga, $\frac{1}{10}$ unc. lata. *Panicula* $1\frac{1}{2}$ unc. longa, 3 lin. lata; bractea ima 2–3 unc. longa, 1 lin.

lata; spicæ 12–30, 1½–2 lin. longæ, fere omnes 2-floræ, in sicco caducæ. *Gluma* (prophyllon) compressa, alte fissa, levis, apice truncata dentata. *Rhachilla* cum glumâ æquilonga, lata, 2-costata, apice florem masculum cum rudimento (floris alteri masculi rhachillâ) gerens. *Stylus* brevis; rami 3 longi rubro-brunei. *Nux* prophyllo parum brevior, exacte ellipsoidea, trigona, multum compressa, fere biconvexa, levis, nigro-brunea, rostro vix ullo.

SZECHUEN: Tongolo in Kiala (*Soulié*, 731 !). Herb. Kew.

3. **Kobresia graminifolia**, *C. B. Clarke*, n. sp.

Culmi 15½ unc. longi, apice acutius trigoni. *Folia* 6–8 unc. longa, 1½ lin. lata, glabra, in marginibus viscoso-rubro-scabrida; vaginæ fissæ, apice scarioso-ligulatæ. *Spica* subebracteata, 14–19 lin. longa, 3½ lin. lata, densiuscula, matura intense brunea. *Spiculæ* omnes 1-nucigeræ; axeos rudimentum sæpe, floris rudimentum rarius additur. *Gluma* 2 lin. longa, elliptico-oblonga, obtusiuscula, in carinâ et in apice minute scabro-pilosa. *Nux* 2 lin. longa, anguste oblonga, trigona, lineari-conice rostrata.—Species *K. Prattii* affinis.

SHENSI: Mt. Miao Uansan (*Hugh* !). Mus. Brit.

4. **Kobresia Prattii**, *C. B. Clarke*, n. sp.

Culmi visi omnes juveniles, usque ad 3 unc. longi, masculi, basi arcte cæspitosi a vaginis fusce bruneis fibrillosis incrassati. *Folia* juvenilia cum culmis æquilonga, vix 1¼ lin. lata. *Spica* fere 1 unc. longa, 2½ lin. lata, viridi-ferruginea. *Bracteæ* (si mavis glumæ masculæ) 5 lin. longæ, lineares, apice perobtusæ. —Species *K. cercostachydi* affinis et similis, ob bracteas obtusas muticas diversa.

SZECHUEN: Tachienlu, 9000–13,500 feet (*Pratt*, 744 !). Herb. Kew.

5. **Kobresia Royleana**, *Boeck. in Linnæa*, xxxix. (1875) p. 8; *C. B. Clarke, in Hook. f. Fl. Brit. Ind.* vi. p. 698.

Trilepis Royleana, *Nees, in Edinb. New Phil. Journ.* xvii. (1834) p. 267, *in Wight, Contrib.* p. 119; *Kunth, Enum. Pl.* ii. p. 535.

Elyna stenocarpa, *Kar. et Kir. in Bull. Soc. Nat. Mosc.* xv. (1842) p. 526.

SZECHUEN: Tongolo, in Kiala (*Soulié*, 771 !).

Central Asia, Himalaya tota.

6. **Kobresia trinervis**, *Boeck. in Linnæa*, xxxix. (1875) p. 548 in notâ; *C. B. Clarke, in Hook. f. Fl. Brit. Ind.* vi. p. 695, cum syn.

Carex mutans, *Franch. in Bull. Soc. Philom. Paris*, sér. 8, vii. (1894) p. 27, *in Nouv. Arch. Mus.* sér. 3, viii. (1896) pp. 191, 209, syn. excl.; non *Boott.*

YUNNAN: Hokin, Mt. Koualapo, 12,250 feet (*Delavay*, 1049 !).

Himalaya.

7. **Kobresia uncinoides**, *C. B. Clarke, in Hook. f. Fl. Brit. Ind.* vi. (1894) p. 698.

Carex uncinoides, *Boott, Carex*, p. 8, t. 23; *Boeck. in Linnæa*, xxxix. (1875) p. 109; *Franch. in Bull. Soc. Philom. Paris*, sér. 8, vii. (1894) p. 28, *in Nouv. Arch. Mus.* sér. 3, ix. (1896) pp. 192, 209.

YUNNAN: Tapintze (*Delavay*), Tsangchan, 12,250 feet (*Delavay*, 2653 !), Yanginchan, 9750 feet (*Delavay*, 2339 bis).

Sikkim, 10,000–16,000 feet.

1. **Carex acutiformis**, *Ehrh. Beitr.* iv. (1789) p. 43; *Boeck. in Linnæa*, xli. (1877) p. 289; *C. B. Clarke, in Hook. f. Fl. Brit. Ind.* vi. p. 740; *Franch. in Nouv. Arch. Mus.* sér. 3, x. (1898) pp. 83, 89; *Diels, in Engl. Bot. Jahrb.* xxix. (1901) p. 233.

Carex paludosa, *Gooden. in Trans. Linn. Soc.* ii. (1794) p. 202; *Sowerby, Engl. Bot.* t. 807; *Meinsh. in Act. Hort. Petrop.* xviii. (1901) pp. 298, 377.

HUPEH (*A. Henry*, fide *Franchet* et fide *Diels*).

From England to Tunis and to Central Asia. Also at the Cape of Good Hope. I have seen no plant of Henry's at Kew that could be *C. acutiformis.*

2. **Carex agglomerata**, *C. B. Clarke*, n. sp.

Culmi pedales, longi, cæspitosi, apice trigoni leves. *Folia* culmo parum breviora, $\frac{1}{8}$–$\frac{1}{6}$ in. lata, in facie inferiore densius puberula. *Spicæ* 4 approximatæ, fere agglomeratæ, ellipsoideæ, virides, densæ; terminalis basi mascula, apice feminea. *Bractea* ima cum inflorescentiâ subæquilonga, vel (raro paullo distans) inflorescentiam superans. *Glumæ* femineæ (mucrone incluso) utriculis breviores, ovatæ, virides aut pallidæ. *Styli* rami 3 cum $\frac{1}{2}$ parte utriculi subæquilongi. *Utriculus* rostro incluso 2 lin. longus, ellipsoideus, viridis, vix nervatus, levis, glaber, sessilis,

apice subito angustatus. *Rostrum* cum $\frac{1}{2}$–$\frac{2}{3}$ parte utriculi æquilongum, breviter 2-dentatum.

SHENSI: Paokisan, Mt. Kifonsan (*Hugh* !). Mus. Brit.

3. **Carex albomas**, *C. B. Clarke*, n. sp.

Hemiscaposa, præter utriculos glabra. *Culmi* 5–7 unc. longi; vaginæ imæ fimbriatæ, lentæ, fusco-bruneæ. *Folia* culmum sæpe superantia, 1$\frac{1}{2}$–2 lin. lata. *Spicæ* 1 unc. longæ, distantes, terminalis mascula alba, femineæ 2–3 albo-virides; *bractea* ima inflorescentiâ brevior, $\frac{3}{4}$–2 unc. longa; *pedunculus* imus e vaginâ brevi breviter exsertus. *Glumæ* femineæ parvæ, albæ, longius viridi-aristatæ. *Styli* rami 3, longi, atro-rubri. *Utriculus* immaturus ovoideus, apice attenuatus, pilosus; rostri dentes 2, longiusculi, scabri.

SHINGKING: Korean Gate (*Ross*, 57 !), Fungshan (*Ross*, 47 !), Moukden to Yaloo River (*Webster* !). Herb. Kew.

These examples are all young, and are marked in hb. Kew as allied to *C. præcox*, Jacquin, which is, I think, the true affinity of *C. albomas*: it differs from *C. præcox*, Jacq., in the distant, green, narrow female spikes and the large white male spike.

In Nouv. Arch. Mus. sér. 3, ix. (1897) p. 186, Franchet has reduced three of his own species to *C. præcox*, Jacq., which he makes a variable species universally distributed in Japan. None of this Japanese *C. præcox* is the same as *C. albomas*; I believe it all quite distinct frem *C. præcox*, Jacq., as it all has the bulbous style-base characteristic of so many Japan species of small *Carex*. But of this *C. præcox*, Franchet, so universal in Japan, I find no example from China.

4. **Carex alliiformis**, *C. B. Clarke*, n. sp.

Culmus 5–17 unc. *Folia* basalia plura, 7–20 unc. longa, 3–6 lin. lata, glabra. *Spicæ* 5–6, distantes, terminalis mascula $\frac{1}{2}$–1 unc. longa, 1$\frac{1}{4}$ lin. lata, brunea; femineæ 1–2 unc. longæ, 3 lin. latæ, juniores viridi-purpureæ, maturæ albæ, imus in pedunculo 1$\frac{1}{2}$-unciali suberectus; *bracteæ* foliiformes, 4–6 lin. latæ, inflorescentiam longe superantes. *Glumæ* femineæ lanceolatæ acutæ, utriculos paullo superantes, in dorso virides in lateribus rubro-purpureæ. *Styli* rami 3, longi. *Utriculus* 1$\frac{1}{4}$–1$\frac{1}{2}$ lin. in diam., globosus, glaber, enervis, inflatus, maturus albi-papyraceus, in rostrum sublineare integrum subito angustatus.

Nux ellipsoidea, trigona, apice depresso-pyramidalis, erostrata, cum ½ parte utriculi vix æquilata.

HUPEH: Ichang (*A. Henry*, 3409, 3483!), 6700 feet (*E. H. Wilson*, 1660!). Herb. Kew.

The spikes of fruit suggested Lilliputian ropes of onions.

5. **Carex alopecuroides**, *D. Don, in Trans. Linn. Soc.* xiv. (1825) p. 332, *Prodr. Fl. Nepal.* p. 43; *Boott, Carex*, p. 88, t. 258; *Boeck. in Linnæa*, xli. (1877) p. 172.

Carex Emodorum, *Spreng. Syst.* iii. p. 818.

Carex patens, *Franch. in Bull. Soc. Philom.* sér. 8, vii. (1894–5) p. 90.

Carex consocialis, *Steud. Cyp.* p. 222.

Carex japonica, var. alopecuroides, *C. B. Clarke, in Hook. f. Fl. Brit. Ind.* vi. p. 737.

HUPEH: Patung (*A. Henry*, 3744!). Herb. Kew.

Frequent in North-east India and in Japan.

The female spikes are 1–2¼ in. long, but not more than ¼ in. broad, except in the var. β. In ripe fruit the beaks of the utricles are recurved.

Var. β. **chlorostachya**, *C. B. Clarke*; robustior, foliis 4–5 lin. latis; spicis fructiferis usque ad 4 lin. latis.

Carex japonica (typ.), *Boott, Carex*, t. 257; *Boeck. in Linnæa*, xli. (1877) p. 283.

Carex chlorostachya, *D. Don, in Trans. Linn. Soc.* xiv. (1825) p. 330 (partim).

Carex Doniana, *Spreng. Syst.* iii. p. 825; *Kunth, Enum. Pl.* ii. p. 503; *Drejer, Symb. Caricol.* p. 26, t. 13.

Carex Zollingeri, *Steud. Cyp.* p. 221.

Carex japonica, var. alopecuroides, *Diels, in Engl. Bot. Jahrb.* xxix. (1901) p. 233.

HUPEH: Patung (*A. Henry*, 5655! *E. H. Wilson*, 1638, 1653!), Chieneht (*E. H. Wilson*, 1644!); SZECHUEN: Wushan (*A. Henry*, 5500!), Mount Omei alt. 3500 feet (*Faber*, 1144!). Mus. Brit.; Herb. Kew.

I have taken Boott's Carex t. 257 as the "type" of this variety, *i. e.* it is the most strongly marked form, and it was drawn from Boott's specimen of "*C. Doniana*, Spreng." (*i. e. C. chlorostachya*, D. Don); but most of D. Don's own *C. chlorostachya* appears to be nearer *C. alopecuroides*, D. Don, between which and my variety *β. chlorostachya* I see no good line.

6. **Carex alta,** *Boott, in Proc. Linn. Soc.* i. (1845) p. 254, *in Trans. Linn. Soc.* xx. (1848) p. 130, *et Carex,* p. 59, t. 153; *Boeck. in Linnæa,* xxxix. (1875) p. 126; *C. B. Clarke, in Hook. f. Fl. Brit. Ind.* vi. p. 707; *Franch. in Nouv. Arch. Mus.* sér. 3, viii. (1896) p. 236; *Diels, in Engl. Bot. Jahrb.* xxix. (1900) p. 230.

Carex Brizopyrum, *Kunze, Suppl. Schkuhr,* p. 169, t. 43.

CHEKIANG (*Faber,* 1024!); SZECHUEN: Tchenkeoutin, 7800 feet (*Farges,* 1244!); YUNNAN: Longki (*Delavay*). Herb. Kew.

North-east India, Java.

Var. β. **Rochebruni,** *Franch. in Nouv. Arch. Mus.* sér. 3, viii. (1896) p. 236; *Diels, in Engl. Bot. Jahrb.* xxix. (1900) p. 230.

Carex Rochebruni, *Franch. et Sav. Enum. Pl. Jap.* ii. pp. 126, 555; *Franch. Pl. David.* ii. p. 139.

SZECHUEN: Moupin (*David!*).

Japan.

7. **Carex arenicola,** *F. Schmidt, Reise Amurl.* (1868) p. 191; *Franch. in Nouv. Arch. Mus.* sér. 3, viii. (1896) p. 221.

Carex chætorrhiza, *Franch. et Sav. Enum. Pl. Jap.* ii. p. 552.

Carex curaica, *Franch. et Sav. Enum. Pl. Jap.* ii. p. 124.

Carex muricata, *Boott, in Mem. Amer. Acad.* new ser. vi. (1859) p. 417 in Obs.

NORTH CENTRAL CHINA: Kaolinsien (*Hugh!*). Mus. Brit.

In Sachalin and Japan, frequent.

8. **Carex aristata,** *R. Br. in Franklin, Polar Sea* (1823), p. 751; *Kunth, Enum. Pl.* ii. p. 519.

Carex trichocarpa, *Muhl.,* var. aristata, *L. H. Bailey, in Bot. Gaz.* x. (Indianopolis, 1885) p. 294.

Cold America and Europe.

Var. **orthostachys,** *C. B. Clarke*; culmis basi 1–1½ lin. in diam., a vaginis parum incrassatis, quam in *C. aristatâ,* R. Br., typ. gracilioribus.

Carex orthostachys, *C. A. Meyer, in Ledeb. Ic. Fl. Ross.* iv. (1833) p. 10, t. 324; *Kunth, Enum. Pl.* ii. p. 491; *Maxim. Prim. Fl. Amur.* p. 316; *Franch. Pl. David.* i. p. 321.

Carex aristata (pars), *Boott, Carex,* p. 22; *Boeck. in Linnæa,* xli. (1877) p. 315; *Franch. in Nouv. Arch. Mus.* sér. 3, x. (1898) pp. 82, 99.

Carex drymophila, *Turcz. in Bull. Soc. Nat. Mosc.* (1838) p. 104.

Carex trichocarpa, var. orthostachys, *Kuek. in Bot. Centralbl.* lxxvii. (1899) p. 92.

Carex amurensis, *Kuek. in Bot. Centralbl.* lxxvii. (1899) p. 94; *Meinsh. in Act. Hort. Petrop.* xviii. (1900) p. 407.

CHIHLI: Jehol (*David*, 1743!), Peking Mountains (*Bodinier*, 98!); SHINGKING: Liao River (*Ross*, 16!); SHANTUNG: Chefoo (*Fauvel*!); KIANGSU: Shanghai (*Wykeham Perry*, *Helol et d'Argy*, 39, 42!); ANWHEI: Nanking (*Faber*, 1525, 1526!). Mus. Brit; Herb. Kew.

Western Mongolia, Japan, Sachalin.

In this series of *Carex*, united by the American botanists under *C. aristata*, R. Br., the lower leaf-sheaths are of loose texture, with transverse lines and scattered needle-like white hairs; these hairs are continued up the under surface of the leaf, more or less. The utricle is glabrous in the lower half; in the upper portion it has sometimes white fine hairs on the angles or is slightly scabrous-pilose on the beak. In the 'Bot. Centralbl.' lxxvii. (1899) Kuekenthal has elaborately reviewed the material, and arranged it in four species and numerous varieties. It is true that the stems are much narrower in the Chinese plant than in the subarctic *C. aristata* type of R. Brown. The plant in Kuekenthal's *C. amurensis* sometimes is 30 in. high. The sheath of the lower bracts is $\frac{1}{4}$ in. or $2\frac{1}{2}$ in. in the North-American type *aristata*. In *C. trichocarpa*, Muhl., the utricles have numerous minute small hairs between the nerves, different in character from the white needle-like hairs sometimes present on the beak of *C. aristata*. I have not seen any Asiatic plant that is = the American *C. trichocarpa*. At all events, I cannot accept Kuekenthal's proposal to divide *C. orthostachys*, C. A. Meyer, into two species, and to put one of these into the North-American *C. trichocarpa*. The species are very close hereabout; and I think Bailey's proposal to collect the whole series under *C. aristata*, R. Br., quite worthy consideration.

9. **Carex Arnellii**, *Christ, in Kongl. Svensk. Vet.-Akad. Handl. Ny Folg.* xxii. no. 10 (1888) p. 177; *Meinsh. in Act. Hort. Petrop.* xviii. (1900) p. 363 in notâ, p. 411.

Carex sylvatica, *Maxim. Prim. Fl. Amur.* p. 312.

Carex sylvatica β, *Turcz. Fl. Baical.-Dahur.* ii. pars I. p. 279.

Carex Maximowiczii, *Boeck. in Linnæa*, xli. (1877) p. 237; *Franch. Pl. David.* i. p. 320, non *F. Schmidt.*

Carex Turczaninowiana, *Meinsh. in Act. Hort. Petrop.* xii. (1892) p. 411, xviii. (1900) pp. 296, 363; *Franch. in Nouv. Arch. Mus.* sér. 3, x. (1898) pp. 59, 97.

CHIHLI: Jehol (*David*).

North and Central Asia.

The utricle is pale, loose; the style-branches short; the nut obovoid—quite distinct from *C. sylvatica*, Huds.

10. **Carex atrata,** *Linn. Sp. Pl.* ed. 1, p. 976, ed. 2, p. 1387; *Schkuhr, Riedgr.* i. p. 52, ii. p. 42, t. x. fig. 77; *Kunth, Enum. Pl.* ii. p. 433; *Boott, Carex,* p. 114, t. 362; *Boeck. in Linnæa,* xl. (1876) p. 398; *C. B. Clarke, in Hook. f. Fl. Brit. Ind.* vi. p. 731; *Franch. Pl. David.* ii. p. 140, *in Bull. Soc. Philom. Paris,* sér. 8, vii. (1895) p. 36, *et in Nouv. Arch. Mus.* sér. 3, ix. (1897) pp. 146, 161; *Diels, in Engl. Bot. Jahrb.* xxix. (1900) p. 231.

SHINGKING: Changpeishan, 1000–7000 feet (*James*!); HUPEH, 6700 feet (*E. H. Wilson*, 1019!); SZECHUEN: Tachienlu (*Soulié*), Moupin (*David*!); YUNNAN: Yentzehay, alt. 11,500 feet (*Delavay* ex *Franchet*), Tsangchan, alt. 13,250 feet (*Delavay*, 867, 2807!). Herb. Kew.

Cold parts of the North Hemisphere.

The plants of James were probably collected on the Mandshurian side of the frontier.

11. **Carex baccans,** *Nees, in Wight, Contrib.* (1834) p. 122; *Kunth, Enum. Pl.* ii. p. 513; *Boott, Carex,* p. 83 (syn. *C. curvirostri*, Kunze, excl.), tt. 234–236 et 238, 239; *Boeck. in Linnæa,* xl. (1876) p. 339; *C. B. Clarke, in Hook. f. Fl Brit. Ind.* vi. p. 722; *Franch. in Nouv. Arch. Mus.* sér. 3, viii. (1896) pp. 251, 260; *Hook. f. Bot. Mag.* t. 7288.

CHINA (*Staunton*); FORMOSA: Tamsui (*A. Henry*, 1402!). Herb. Kew.

Tonkin, India, Malaya.

12. **Carex basiflora,** *C. B. Clarke*, n. sp.

Folia basalia 12–16 unc. longa, usque ad 4 lin. lata. *Culmi* frutescentes 5, usque ad 4–5 unc. longi. *Spicæ* 3–4 distantes, terminalis mascula, fusce olivaceæ. *Bracteæ* inflorescentiâ breviores. *Utriculus* rostro incluso 2 lin. longus, in humeris sparsim aciculari-pilosus, globosus; rostrum lineare cum $\frac{3}{4}$ parte utriculi æquilongum, breviter 2-dentatum. *Nux* ellipsoidea, prava, trigona, apice pyramidata erostrata; styli basis linearis torta.

HUPEH: Patung (*A. Henry*, 3748!); NORTH CENTRAL CHINA: Laoysan (*Hugh*!). Mus. Brit.; Herb. Kew.

C. brevicuspis, huic peraffinis, ob nucem longe rostratam præcipue differt.

13. **Carex bidentula,** *Franch. in Bull. Soc. Philom. Paris*, sér. 8, vii. (1894–5) p. 41, *et in Nouv. Arch. Mus.* sér. 3, ix. (1897) pp. 132, 159 (excluding the examples with 2-fid style).

Carex rigidula, *Franchet, MS.*

SHINGKING: Moukden to Yalos R. (*Webster*, 181!). Herb. Kew.

Frequent in Japan.

Franchet says the affinity of this species is with *C. vulgaris*; this can only refer to the examples with bifid style that Franchet included here.

14. **Carex biwensis,** *Franch. in Bull. Soc. Philom. Paris*, sér. 8, vii. (1895) p. 28, *et in Nouv. Arch. Mus.* sér. 3, viii. (1896) p. 197, t. 2. fig. 2.

HUPEH: Ichang (*A. Henry*, 7865!). Herb. Kew.

Japan.

This species differs very little from *C. capillacea*, Boott.

15. **Carex Boottiana,** *Hook. et Arn. Bot. Beech. Voy.* (1841) p. 273; *Kunth, Enum. Pl.* ii. p. 515, nec *Boott*, nec *Bentham, MS.*

Carex Bongardi, *Boott, in Trans. Linn. Soc.* xx. (1846) p. 144, *et Carex*, p. 160, t. 531.

Carex wahuensis, *Boott, Carex*, t. 351, quoad utriculum dextrorsum nucem superiorem (neque aliter).

BONIN ISLES (*Beechey*, n. 70; *C. Wright*, n. 370).

Beechey's plant has (as Hook. et Arn. describe) an oblong-lanceolate utricle, which is $\frac{1}{4}$ inch long, stramineous, with 20–24 nerves. Boott's tab. 351 (except the utricle and nut above cited) is taken from the Sandwich plant which Boott subsequently published as a distinct species, viz. *C. nuptialis*, Boott (Carex, p. 175, t. 591). The nut has no beak, which character shuts it off from *C. tenebrosa*, Boott.

Var. *β*. **bracteosa,** *C. B. Clarke*. *Bracteæ* longissimæ, 2 inferiores usque ad 8–12 unc. longæ, inflorescentiam longe superantes. *Spica* mascula subsessilis. *Glumæ* femineæ longe aristatæ, inferiores subbracteiformes. *Bractea* ima longius vaginata.

Carex wahuensis, *Boott, in Mem. Amer. Acad.* new ser. vi. (1859) p. 417; *Carex,* pp. 111, 112 partim, t. 354; *Palibin, Fl. Koreæ,* iii. p. 26 partim.

LUCHU ARCHIPELAGO (*C. Wright,* 363!). Herb. Kew.

The utricles agree closely with those of *C. Boottiana,* Hook. et Arn.; but it might be made a distinct species. The bracts are sometimes more than twice the length depicted in Boott's tab. 354. Though Boott included this Luchu plant in *C. wahuensis* (Carex, pp. 111, 112), yet he subsequently (p. 160) joined it with his *C. Bongardi* (i. e. *C. Boottiana,* Hook. et Arn.); for his locality for *C. Bongardi,* viz. "Bonin Island, Loochoo, Bongard (herb. Hooker), Wright, N. Pacific Exped. U.S. (herb. Gray)," must mean that he put together the Bonin and Luchu plants.

16. **Carex breviculmis,** *R. Br. Prodr.* p. 242; *Kunth, Enum. Pl.* ii. p. 522; *Boott, Carex,* p. 181, *Ic. Ined.* 614–616; *Benth. Fl. Austral.* vii. pp. 436, 445; *Hook. f. Fl. New Zeal.* i. p. 283, t. 63; *C. B. Clarke, in Hook. f. Fl. Brit. Ind.* vi. p. 746; *Baker et S. Moore, in Journ. Linn. Soc., Bot.* xvii. (1880) p. 388; *Franch. in Nouv. Arch. Mus.* sér. 3, ix. (1897) p. 192, x. (1898) p. 95; *Diels, in Engl. Bot. Jahrb.* xxix. (1901) p. 232; *Palibin, Fl. Koreæ,* iii. p. 22.

Carex Royleana, *Nees, in Wight, Contrib.* p. 127; *Kunth, Enum. Pl.* ii. p. 441; *Boott, Carex,* p. 6, t. 19.

Carex leucochlora, *Bunge, in Mém. Sav. Étrang. St. Pétersb.* ii. (1835) p. 142; *Meinsh. in Act. Hort. Petrop.* xviii. (1900) pp. 295, 360.

Carex Langsdorffii, *Boott, in Trans. Linn. Soc.* xx. (1847) p. 144.

Carex puberula, *Boott, in Perry, Exped.* ii. (1857) p. 324.

Carex discoidea, *Boott, in Mem. Amer. Acad.* vi. (1859) p. 419.

CHINA BOR. (*Bunge!*); CHIHLI: Peking (*Bushell!*); SHINGKING (*Ross,* 66!); KIANGSU: Shanghai (*Maingay,* 644! *Faber,* 227!); CHEKIANG: Ningpo Mountains (*Faber,* 1523, 1524!), Punto Isle (*Faber,* 24!); KIANGSI: Kiukiang (*Faber,* 1138, 1141! *Maries!*), Nankangfoo (*Miss Reid!*); FOKIEN: Amoy (*Grys,* 9964!); FORMOSA (*Oldham,* 597!); HUPEH: Patung (*A. Henry,* 3732! *E. H. Wilson,* 1659!); NORTH CENTRAL CHINA: Scekintsuen (*Hugh!*); COREA: Port Hamilton (*Wilford,* 706, 709! *Oldham,* 916!); LUCHU ARCHIPELAGO (*C. Wright,* 364!). Mus. Brit.; Herb. Kew.

India, Australia, New Guinea, New Zealand; abundant in Japan.

This species varies much in the points dear to Cyperologists:

the female glume has usually a long green arista, but sometimes the glume is acute or hardly mucronate; the spikes are usually approximate, the bract to the lowest spike much overtopping the inflorescence, but sometimes the lowest spike is somewhat distant and the bract short. From these variations, Booth and Franchet each constructed several species. But the material having now increased, Franchet has reduced the whole to *C. breviculmis*, R. Br.

The species, in its characteristic state, with long bracts, is not very like *C. pisiformis*, Boott; but the examples with short bracts, and glumes but little aristate, can hardly be distinguished from *C. pisiformis* but by their small, slender, subsessile male spike.

17. **Carex brevicuspis**, *C. B. Clarke*, n. sp.

Fusco-viridis. *Folia* 2-pedalia, 3–4 lin. lata, fere glabra. *Culmi* 12–16 unc. longi. *Bracteæ* inflorescentiam non superantes. *Spicæ* 4, distantes, terminalis omnino mascula pedunculata 1 unc. longa, $\frac{1}{5}$ unc. lata, rufo-brunea. *Spica* feminea 2 unc. longa, 3–4 lin. lata, fusco-viridis. *Glumæ* femineæ utriculis subbreviores, anguste lanceolatæ 8-nerviæ, apice acuminatæ lineares, vix mucronatæ. *Stylus* 3-fidus. *Utriculus* globosus, subinflatus, olivaceus, multistriatus, fere glaber, in rostrum subito contractus; rostrum lineare, cum utriculi corpore subæquilongum, apice brevi–2-cuspidatum. *Nux* trigona; rostro cylindrico, pravo (nuci *C. tenebrosæ* simillima).

KIANGSI: Kiukiang (*Maries*! *Shearer*!); CHEKIANG: Ningpo Mountains (*Faber*, 62!). Herb. Kew.

18. **Carex Brownii**, *Tuckerm. Enum. Caric.* (1849) pp. 15, 21; *Boott, Carex*, p. 161, t. 532; *Franch. et Sav. Enum. Pl. Jap.* ii. p. 578; *Boeck. in Linnæa*, xli. (1877) p. 151; *Franch. in Nouv. Arch. Mus.* sér. 3, x. (1898) pp. 49, 96; *Palibin, Fl. Koreæ*, iii. p. 22, syn. *C. lacistomate* excl.

Carex striata, *R. Br. Prodr.* p. 243; *Drejer, Symb. Caricol.* p. 28, t. 15; *Kunth, Enum. Pl.* ii. p. 458; non *Mich.*

Carex ringens, *Boott, in Mem. Amer. Acad.* n. s. vi. (1859) p. 419; *Franch. et Sav. Enum. Pl. Jap.* ii. p. 149.

Carex bulbosa, *Boott, MS.*

COREA: Chusan (*Wilford*, 926!). Herb. Kew.

Japan, Australia.

19. **Carex brunnea,** *Thunb. Fl. Jap.* (1784) p. 38; *Schkuhr, Riedgr.* ii. p. 16, t. Xx. fig. 111; *Kunth, Enum.* ii. p. 392; *Franch. et Savat. Enum. Pl. Jap.* ii. p. 125; *Boeck. in Linnæa,* xxxix. (1875) p. 145; *C. B. Clarke, in Hook. f. Fl. Brit. Ind.* vi. p. 705; *Franch. in Nouv. Arch. Mus.* sér. 3, viii. (1896) pp. 241, 259; *Diels, in Engl. Bot. Jahrb.* xxix. (1900) p. 230.

Carex gracilis, *R. Br. Prodr.* p. 242; *Boott, Carex,* p. 59, tt. 154, 155, 156.

Carex Commersoniana, *Kunth, Enum. Pl.* ii. p. 391.

Carex Fabri, *Hance, in Journ. Linn. Soc., Bot.* xiii. (1873) p. 90; *Franch. in Nouv. Arch. Mus.* sér. 3, ix. (1897) p. 138.

CHINA (*Sir E. Home*!); KIANGSU: Shanghai (*Hance,* 10238!); CHEKIANG: Ningpo (*Swinhoe*! *Hance,* 9945!); FORMOSA: Kelung (*Oldham,* 598!), Tamsui (*A. Henry,* 1401!), Takow (*A. Henry,* 2009!); HUPEH: Patung (*A. Henry,* 5020, 5156!), Ichang (*A. Henry,* 3341!); SZECHUEN: Tchenkeoutin, 5500 feet (*Farges,* 225!); YUNNAN: Mosoyn (*Delavay,* 4090!), Mengtze, 5000 feet (*A. Henry,* 1401!); LUCHU ARCHIPELAGO (*C. Wright,* 368!). Mus. Brit.; Herb. Kew.

From Madagascar and India to Japan, the Sandwich Isles, and Australia; a frequent plant.

20. **Carex cæspitosa,** *Linn. Sp. Pl.* ed. 1, p. 978, ed. 2, p. 1388, pro parvâ parte; *Palmstr. Svensk Bot.* iv. (1805) t. 222; *Boeck. in Linnæa,* xl. (1876) p. 427; *Franch. in Bull. Soc. Philom. Paris,* sér. 8, vii. (1895) p. 87, *et in Nouv. Arch. Mus.* sér. 3, ix. (1897) pp. 127, 159.

CHIHLI: Peking (*Bodinier*).

Cool parts of the North Hemisphere; not rare in Japan, but much less common than *C. Goodenowii,* J. Gay. No Chinese specimen has been seen by me.

21. **Carex capillacea,** *Boott, Carex,* p. 44 (1858), t. 110; *Boeck. in Linnæa,* xxxix. (1875) p. 37; *C. B. Clarke, in Hook. f. Fl. Brit. Ind.* vi. p. 713; *Franch. in Nouv. Arch. Mus.* sér. 3, viii. (1896) pp. 197, 209 (var. *yunnanensi* excl.; syn. *C. nana, C. ontakensi* excl.).

Carex rara, *Palibin, Fl. Koreæ,* iii. p. 25, quoad exemplum in Seoul lecta?

Carex capitellata, *Boiss. Fl. Orient.* v. p. 399.

Carex simplicissima, *F. Muell. Fragm. Phyt. Austral.* ix. p. 191.

CHEKIANG: Ningpo Mountains, 2000 feet (*Faber*, 59!); YUNNAN: Outchay (*Delavay*, 406), Langkong (*Delavay*, 2078). Mus. Brit.; Herb. Kew.

Scattered from Laristan to Sachalin to New South Wales.

22. **Carex capilliformis,** *Franch. in Bull. Soc. Philom. Paris*, sér. 8, vii. (1895) p. 89, *et in Nouv. Arch. Mus.* sér. 3, x. (1898) pp. 66, 97, t. 6. fig. 1; *Diels, in Engl. Bot. Jahrb.* xxix. (1901) p. 232.

NORTH CENTRAL CHINA: Mount Thaepersan (*Hugh*); SZECHUEN: Tchenkeoutin (*Farges*). Mus. Brit.

23. **Carex cardiolepis,** *Nees, in Wight, Contrib.* (1834) p. 127; *Kunth, Enum. Pl.* ii. p. 516; *Boott, Carex*, p. 6, t. 17; *Boeck. in Linnæa*, xli. (1877) p. 319; *C. B. Clarke, in Hook. f. Fl. Brit. Ind.* vi. p. 744; *Franch. in Nouv. Arch. Mus.* sér. 3, ix. (1897) p. 172, x. (1898) p. 93; *Diels, in Engl. Bot. Jahrb.* xxix. (1901) p. 232.

SZECHUEN: Tchenkeoutin (*Farges*!).

Cabul and North-west Himalaya.

24. **Carex cercidascus,** *C. B. Clarke*, n. sp.

Viridis, 10-uncialis, debilior. *Folia* 10 unc. longa, vix 2 lin. lata, glabra. *Spicæ* c. 4, terminalis mascula, 1¼ unc. longæ, graciles, virides, albidæ, paullo distantes (ima 1–2 unc. remota pedunculata); bracteæ foliiformes, inflorescentiam non superantes. *Glumæ* parvæ, in dorso fusco-virides, in lateribus albo-scariosæ, mucrone lanceolato incluso cum utriculis æquilongæ. *Stylus* 3-fidus. *Utriculus* (immaturus) 1¼ lin. longus, anguste ellipsoideus, utrinque angustatus, levis subenervis, glaber, ore integro.

CHEKIANG: Tientai Mountains, 3000 (? feet) (*Faber*, 60!). Herb. Kew.

The young utricle is like a shuttle. The long, slender, green-white spikes resemble no Chinese species of this subgenus except *C. ichangensis*.

25. **Carex cernua,** *Boott, Carex*, iv. (1867) p. 171, t. 578; *C. B. Clarke, in Hook. f. Fl. Brit. Ind.* vi. p. 708, non *Franch.*

Carex phacota, *Franch. in Nouv. Arch. Mus.* sér. 3, ix. (1897) pp. 117, 158, non *Spreng.*

KIANGSU: Shanghai (*Carles*, 540 !); CHEKIANG (*Faber*, 248 *b* !). Herb. Kew.

Assam, Tonkin, Japan.

[*C. cernua*, Franchet, in Nouv. Arch. Mus. sér. 3, ix. (1897) p. 116, is partly = *C. shimidzensis*, Franch., partly = *C. Prescottiana*, Boott—two species hardly separable; the terminal spike in both male.]

26. **Carex chinensis**, *Retz. Obs.* iii. (1783) p. 42; *Kunth, Enum. Pl.* ii. p. 517; *Boott, Carex*, p. 13, t. 36; *Benth. Fl. Hongk.* p. 402; *Boeck. in Linnæa*, xli. (1877) p. 231; *Franch. in Nouv. Arch. Mus.* sér. 3, ix. (1897) p. 182, x. (1898) p. 94; *Finet et Franch. in Bull. Soc. Bot. France*, sér. 3, vi. (1899) p. 214.

Carex Retzii, *Nees, in Wight, Contrib.* p. 128 (Retziana, p. 132).

FOKIEN: Kuatun Mountains (*De la Touche*); HUPEH: Ichang (*A. Henry*, 3530 !); KWANGTUNG: Macao (*Gaudichaud* ! *Calléry*, 42, 397 !); HONGKONG (*Harland*, 712 ! *C. Wright*, 80, 603 ! *Faurie*, 15866 ! *Bon*, 131 !), Pic Victoria (*Bodinier*, 541 !). Mus. Brit.; Herb. Kew.

In this species the nut is "apiculate," *i. e.* contracted to a very narrow neck below the style-base. The female glumes have usually long awns, but in A. Henry's 3530 they are short.

27. **Carex condensata**, *Nees, in Wight, Contrib.* (1834) p. 123 partim (*i. e. Royle*, n. 83); *Boott, Carex*, p. 86, tt. 247, 248; *C. B. Clarke, in Hook. f. Fl. Brit. Ind.* vi. p. 716; *Franch. in Nouv. Arch. Mus.* sér. 3, viii. (1896) pp. 252, 260 partim; non *Kunth.*

Carex bengalensis, *Boeck. in Linnæa*, xl. (1876) p. 347 pro magnâ parte.

Carex indica, *Nees, in Wight, Contrib.* p. 123 (*i. e. Royle*, n. 85); non *Linn.*

Carex cruciata, *Franch. in Nouv. Arch. Mus.* sér. 3, viii. (1896) p. 253 partim.

YUNNAN (*A. Henry*, 86 !), Mengtze 6000 feet (*A. Henry*, 9576, 9576 A, 9576 B !), Tsangchan (*Delavay*, 4174 !). Herb. Kew.

India; common.

28. **Carex conica**, *Boott, in Perry, Exped.* ii. (1857) p. 325; *Franch. et Sav. Enum. Pl. Jap.* ii. p. 143; *Boeck. in Linnæa*, xl.

(1876) p. 451; *Franch. in Nouv. Arch. Mus.* sér. 3, ix. (1897) p. 169.

Corea: Tsusima (*Wilford*, 778!). Herb. Kew.
Japan.

29. **Carex continua**, *C. B. Clarke, in Hook. f. Fl. Brit. Ind.* vi. p. 717. ?

Yunnan (*A. Henry*, 10161!). Herb. Kew.
North India, Philippines.

30. **Carex cremostachys**, *Franch. in Bull. Soc. Philom. Paris*, sér. 8, xi. (1895) p. 34, *et in Nouv. Arch. Mus.* sér. 3, ix. (1897) pp. 119, 159.

Yunnan: Yentzsehay 10,000 feet (*Delavay*, 4691).

31. **Carex cruciata**, *Wahlenb. in Kongl. Vet.-Akad. Stockh. Handl.* xxiv. (1803) p. 149; *C. B. Clarke, in Hook. f. Fl. Brit. Ind.* vi. p. 715; *Franch. in Nouv. Arch. Mus.* sér. 3, viii. (1896) pp. 253, 260; *Diels, in Engl. Bot. Jahrb.* xxix. (1900) p. 230.

Carex benghalensis, *Roxb. Fl. Ind.* iii. p. 572; *Benth. Fl. Hongk.* p. 401; *Boott, Carex*, p. 85 partly, *i. e.* t. 243.

Carex valida, *Nees, in Wight, Contrib.* p. 123; *Kunth, Enum. Pl.* ii. p. 513.

Carex indica, *Munro, in Seem. Voy. 'Herald,'* p. 423, non *Linn.*

Carex stramentitia, *Franch. in Bull. Soc. Philom.* sér. 8, vii. (1895) p. 33, fide *Franchet*; non *Boott.*

China (*Fortune*, 115!); Formosa: Kelung (*Oldham*!), Bankinsing (*A. Henry*, 840!); Hupeh: Changyang (*A. Henry*, 7753!), Nanto Mts. (*A. Henry*, 4628!), Patung (*E. H. Wilson*, 1572!); Szechuen: Mt. Omei (*Faber*, 1121!); Yunnan: Mengtze, 4000–5000 feet (*A. Henry*, 9971, 11151, 11440!), ?? Szemao, 4500 feet (*A. Henry*, 12404!), Tchenfongchan (*Delavay*, 5078!); Kwangtung (*Ford*, 180! *Tate*! *Seemann*, 2398!); Hongkong (*Furet*, 13! *Harland*, 693! *Bodinier*, 985! *C. Wright*, 606! *Hance*, 2248!). Mus. Brit.; Herb. Kew.

Malaya, Tonkin, India, Madagascar.

Part of Franchet's *C. cruciata* is here referred to *C. condensata*, Nees; and part of his *C. condensata* to *C. cruciata*, Wahl.

32. **Carex cryptostachys**, *Brongn. in Duperrey, Voy. 'Coquille'* (1829), p. 152, t. 25; *Kunth, Enum. Pl.* ii. p. 513; *Benth.*

Fl. Hongk. p. 403; *Boott, Carex*, p. 103, t. 310; *Boeck. in Linnæa*, xl. (1876) p. 327; *Franch. in Nouv. Arch. Mus.* sér. 3, ix. (1897) p. 193, x. (1898) p. 95.

Carex cyrtostachys, *C. B. Clarke* (sphalm.), *in Hook. f. Fl. Brit. Ind.* vi. p. 714.

HONGKONG (*C. Wright*, 604! *Wilford*, 256! *Harland*, 791! *Hance*, 1158! *Faurie*, 15777! *Bodinier*, 103, 107!). Mus. Brit.; Herb. Kew.

Tonkin. Malaya Peninsularis et Insularis.

33. **Carex cylindrostachys**, *Franch. in Bull. Soc. Philom. Paris*, sér. 8, vii. (1895) p. 32, *et in Nouv. Arch. Mus.* sér. 3, ix. (1897) pp. 114, 158.

YUNNAN: Tapintze (*Delavay*, 1742!).

34. **Carex Davidi**, *Franch. Pl. David.* i. (1884) p. 319, *et in Nouv. Arch. Mus.* sér. 3, ix. (1897) p. 165, x. (1898) p. 93; *Diels, in Engl. Bot. Jahrb.* xxix. (1900) p. 231.

Carex ascotreta, *Franch. in Nouv. Arch. Mus.* sér. 3, ix. (1897) p. 182, x. (1898) p. 94; *Diels, in Engl. Bot. Jahrb.* xxix. (1900) p. 232.

SHANSI (*David*!); HUPEH: Ichang (*Henry*, 7899!), Patung (*Henry*, 5320!); NORTH CENTRAL CHINA: Scekintsuen (*Hugh*!). Mus. Brit.; Herb. Kew.

35. **Carex Delavayi**, *Franch. in Bull. Soc. Philom. Paris*, sér. 8, vii. (1895) p. 29, *et in Nouv. Arch. Mus.* sér. 3, viii. (1896) pp. 208, 210, t. 2. fig. 1.

YUNNAN: Tapintze, 6000 feet (*Delavay*, 1739!).

There is, in two of the plants, a second remote peduncled axillary spike. The species is remote from the sect. *Raræ*, where Franchet has arranged it; but it is not easy to find a good place for it.

36. **Carex Dickinsii**, *Franch. et Sav. Enum. Pl. Jap.* ii. (1879) pp. 153, 581; *Franch. in Nouv. Arch. Mus.* sér. 3, x. (1898) pp. 80, 99.

Carex retrorsa, *Palibin, Fl. Koreæ*, iii. p. 25; *Maximowicz, MS.*, non *Schweinitz.*

Carex retrorsa, var. minor, *Boott, MS.*

COREA: Chusan (*Wilford*, 927!). Herb. Kew.

Frequent in Japan.

Franchet separated this plant as a species from the North-American *C. retrorsa*, Schwein., which has longer spikes with the beaks of the utricles prominently deflexed. *C. retrorsa*, Schwein., has also spongiose transversely lineolate leaves, which will not match.

37. **Carex digitata**, *Linn. Sp. Pl.* ed. 1, p. 975, ed. 2, p. 1384; *Schkuhr, Riedgr.* i. p. 76, ii. p. 57, t. H. fig. 38; *Kunth, Enum. Pl.* ii. p. 473; *Boeck in Linnæa*, xli. (1877) p. 193; *Baker et S. Moore, in Journ. Linn. Soc., Bot.* xvii. (1880) p. 389.

SHINGKING: E. of Fungwhangshan (*Ross*, 118!), Korean Gate (*Ross*, 424!). Herb. Kew.

A common European species, extending to North Asia.

38. **Carex dineuros**, *C. B. Clarke*, n. sp.

Culmus 2–3-pedalis, imâ basi foliis squamiformibus intectus. *Folia* supra culmi basin usque ad 12 unc. longa, 4 lin. lata, glabra. *Spicæ* 4–5, distantes, terminalis mascula $1\frac{3}{4}$–$2\frac{1}{2}$ unc. longa, pallide purpureo-brunea; femineæ $1\frac{3}{4}$–$2\frac{1}{2}$ unc. longæ, 2 lin. latæ, fusce luteo-virides; bractea ima pedalis, inflorescentiam multo superans. *Glumæ* ovatæ, obtusæ vel vix acutæ, femineæ cum utriculis æquilongæ. *Stylus* 3-fidus. *Utriculus* $\frac{3}{4}$ lin. longus, obovoideo-ellipsoideus, glaber, trigonus, fusce viridis obscure purpureo-maculatus, apice contractus; in 2 angulis conspicue nervatus; rostrum perminutum, lineare, ore integro. *Nux* ellipsoidea, trigona, apice breviter pyramidata acuminata.

SHINGKING: Chienshan (*Ross*, 533!); CHEKIANG: Tsien Mts. (*Faber*, 1527!). Herb. Kew.

39. **Carex dispalata**, *Boott, in Perry, Exped.* ii. (1859) p. 325; *Boott, Carex* [1], p. 205; *F. Schmidt, Reise Amurl.* p. 196, t. 7. figg. 6–10; *Franch. et Sav. Enum. Pl. Jap.* ii. pp. 151, 580; *Franch. in Nouv. Arch. Mus.* sér. 3, x. (1898) pp. 74, 98.

Carex marginaria, *Franch. in Bull. Soc. Philom. Paris*, sér. 8, vii. (1894–5) p. 40; *Franch. in Nouv. Arch. Mus.* sér. 3, ix. (1897) pp. 133, 160.

SHINGKING: Moukden (*Webster*, 287!). Herb. Kew.

Sachalin. Frequent in Japan.

The style is always 3-fid; whereas Franchet says, in both his descriptions, that the style in his *C. marginaria* (Toya, n. 1084) is bifid. But in *C. marginaria*, herb. Faurie (Toya, n. 10184), the style is always 3-fid; and I believe Faurie has rightly inscribed this *C. marginaria*, Franch.

40. **Carex drepanorrhyncha**, *Franch. Pl. David.* ii. p. 141, *in Nouv. Arch. Mus.* sér. 3, ix. (1897) p. 178, t. 4. fig. 2, x. (1898) p. 94; *Diels, in Engl. Bot. Jahrb.* xxix. (1900) p. 232.

SZECHUEN: Moupin (*David*).

Not seen. Franchet says that this species was very near *C. thibetica*, as doubtless it was; for in his description he says that the stems were clothed at base with short leaves *only*, and that the leaves of the innovations were longer than the stems; but his picture shows the stem with long leaves, and, I assume, requires correction.

41. **Carex Duthiei**, *C. B. Clarke, in Hook. f. Fl. Brit. Ind.* vi. (1894) p. 731, *in Journ. Linn. Soc., Bot.* xxxiv. (1898) p. 127.

Carex atrata, var. pullata, *Boott, Carex*, p. 114, t. 364 (spicis nucigeris nimis latis).

SZECHUEN: Tachienlu, 9000–13,500 feet (*Pratt*, 556!). Herb. Kew.

Himalaya.

Pratt n. 556 in herb. Mus. Brit. is *C. ustulata*, Wahlenb.; and Franchet has noted in MS. that the Pratt n. 556 in herb. Paris is "altogether different" from n. 556 in hb. Kew.

42. **Carex fastigiata**, *Franch. in Bull. Soc. Philom. Paris*, sér. 8, vii. (1894) p. 35, *et in Nouv. Arch. Mus.* sér. 3, ix. (1897) pp. 113, 158, viii. (1896) t. 12. fig. 2.

YUNNAN: Mosoyn (*Delavay*).

Not seen.

43. **Carex ferruginea**, *Scop. Fl. Carniol.* ed. 2 (1772), p. 225; *Boeck. in Linnæa*, xli. (1877) p. 228.

Carex Scopoliana, *Willd. Sp. Pl.* iv. p. 292; *Schkuhr, Riedgr.* ii. p. 77, t. Nnnn. fig. 199.

Carex Mielichhoferi, *Schkuhr, Riedgr.* ii. p. 66, t. Mmmm. fig. 198, non *J. E. Smith.*

A common species of Central Europe, extending to Turkestan.

Var. **tatsiensis**, *Franch. in Nouv. Arch. Mus.* sér. 3, x. (1898) pp. 55, 97.

SZECHUEN: Tachienlu (*Soulié*, 834).

44. **Carex filicina,** *Nees, in Wight, Contrib.* (1834) p. 123; *Kunth, Enum. Pl.* ii. p. 510; *Boott, Carex,* p. 105 (varr. α et γ), tt. 311, 312; *Boeck. in Linnæa,* xl. (1876) p. 352; *C. B. Clarke, in Hook. f. Fl. Brit. Ind.* vi. p. 717; *Franch. in Nouv. Arch. Mus.* sér. 3, viii. (1896) pp. 254, 260; *Diels, in Engl. Bot. Jahrb.* xxix. (1900) p. 231.

HUPEH: Ichang, Nanto Mts. (*A. Henry,* 2669!); YUNNAN: Mengtze, 7000–8000 feet (*Henry,* 10210, 10210 A!), Tapintze, 7000 feet (*Delavay,* 2400!), Tchenfongchan (*Delavay*), foot of Kichau (*Delavay,* 4001). Herb. Kew.

Malaya, Tonkin, India.

45. **Carex filipes,** *Franch. et Sav. Enum. Pl. Jap.* ii. (1879) pp. 148, 576; *Franch. in Nouv. Arch. Mus.* sér. 3, x. (1898) pp. 68, 98.

Carex sparsinux, *Franch. in Nouv. Arch. Mus.* sér. 3, x. (1898) pp. 66, 97; *Diels, in Engl. Bot. Jahrb.* xxix. (1901) p. 233.

HUPEH: Patung (*Henry,* 3745!), Changlo (*Henry,* 6271!). Herb. Kew.

Also in Japan.

46. **Carex finitima,** *Boott, Carex,* p. 44 (1857), t. 112; *Boeck. in Linnæa,* xli. (1877) p. 247; *C. B. Clarke, in Hook. f. Fl. Brit. Ind.* vi. p. 736; *Franch. in Nouv. Arch. Mus.* sér. 3, x. (1898) pp. 65, 97; *Diels, in Engl. Bot. Jahrb.* xxix. (1901) p. 232.

SZECHUEN: Mt. Omei (*Faber,* 1149!). Herb. Kew.

Central Himalaya.

47. **Carex foraminata,** *C. B. Clarke,* n. sp.

Hemiscaposa. *Folia* basalia 18 unc. longa, 3 lin. (et ultra) lata, fere glabra. *Culmi* florentes 12–16 unc. longi, efoliati; bracteæ vix unciales, setaceæ. *Spicæ* 5, remotæ, terminalis omnino mascula pedunculata 3 unc. longa, 2–2½ lin. lata, intensius brunea. *Spica* feminea 2 unc. longa, 2 lin. lata; glumæ ellipticæ, acutæ, utriculos paullo superantes, in dorso 3-nerviæ viridi-luteæ, in lateribus bruneæ. *Stylus* 3-fidus. *Utriculus* obovoideus, ¾ lin. longus, apice erostris, trigonus, multi-striatus, undique tenuiter microscopice pilosus. Nux anguste obovoidea, trigona, erostris in medio impressa (prava).

CHEKIANG: Ningpo Mts., 1800 feet (*Faber,* 63!); KIANGSI: Kiukiang Mts. (*Faber,* 1139!), Chinkiang et Kiukiang (*Maries*!). Herb. Kew.

This species is next *C. Davidi*, Franchet, of which it has the utricle. The male spike is much longer; the female glume is exaristate.

48. **Carex Forbesii,** *C. B. Clarke*, n. sp.

Culmi 14 unc. longi, recti. *Folia* 9 unc. longa, 2½ lin. lata, glabra. *Spicæ* 4, paullo distantes, rufo-bruneæ, 2 superiores masculæ 1 unc. longæ, 2½ lin. latæ, 2 inferiores femineæ parum pedunculatæ 1½ unc. longæ, 4 lin. latæ; bracteæ filiformes, inflorescentiam paullo superantes. *Glumæ* femineæ ovatæ, mucronatæ, in lateribus bruneæ, utriculis multo breviores. *Stylus* 3-fidus. *Utriculus* 2½–3 lin. longus, ellipsoidei-conicus, suberostratus, coriaceus, glaber, obscure glanduloso-puberulus, a nervis numerosis striatus, ore breviter 2-dentato. *Nux* obovoidea, trigona, apice apiculata, basi substipitata.

SHANTUNG: Chefoo (*Forbes*!). Herb. Kew.

This has been arranged as a possible variety of *C. pumila* in hb. Kew, to which species it is closely allied. The long straight stems, the leaves being shorter than the stems, give it a different aspect, while the utricles are beakless with very numerous longitudinal striations.

49. **Carex Forficula,** *Franch. et Sav. Enum. Pl. Jap.* ii. (1879) pp. 131, 557; *Franch. in Nouv. Arch. Mus.* sér. 3, ix. (1897) pp. 135, 160, viii. t. 8. fig. 2; *Palibin, Fl. Koreæ*, iii. p. 22.

Carex notha, *Baker et S. Moore, in Journ. Linn. Soc., Bot.* xvii. (1880) p. 389, non *Kunth.*

Carex notha, var., *Boott, MS.*

SHINGKING: Kwandien Mts. (*Ross*, 75!); SHENSI: Mt. Miaowangsan (*Hugh*!); COREA (*Kalinowski*). Mus. Brit.; Herb. Kew.

Japan, abundant.

C. notha, Kunth, is very like *C. Forficula*, but has the utricle nerved, its wall dotted over by transparent ferruginous elliptic glands sunk in the utricle-wall, its beak shorter.

50. **Carex gentilis,** *Franch. in Bull. Soc. Philom. Paris*, sér. 8, vii. (1895) p. 84, *et Nouv. Arch. Mus.* sér. 3, viii. (1896) pp. 246, 260, t. 4. fig. 2; *Diels, in Engl. Bot. Jahrb.* xxix. (1900) p. 230.

KIANGSI: Kiukiang Mts. (*Faber*, 1188!); YUNNAN: Tchengfongchan Mts. (*Delavay*!). Herb. Kew.

This species is very near *C. longicruris*, Nees; it has shorter style-branches and a smaller utricle.

51. **Carex gibba**, *Wahlenb. in Kongl. Vet.-Akad. Stockh. Handl.* xxiv. (1803) p. 148, char. emend.; *Schkuhr, Riedgr.* ii. p. 22; *Kunth, Enum. Pl.* ii. p. 420; *Boott, Carex*, p. 187; *Boeck. in Linnæa*, xxxix. (1875) p. 127; *Franch. et Sav. Pl. Jap.* ii. p. 132; *Franch. in Nouv. Arch. Mus.* sér. 3, viii. (1896) pp. 236, 241: *Diels, in Engl. Bot. Jahrb.* xxix. (1900) p. 230.

Carex remota, *Thunb. Fl. Jap.* p. 37, non *Linn.*

Carex anomala, *Boott, in Perry, Exped. Jap.* p. 327; *Palibin, Fl. Koreæ*, iii. p. 21, non *Steud.*

Carex pteroloma, *Kunze ex Steud. Cyp.* p. 242.

KIANGSU: Shanghai (*Maingay*, 360, 362!, *Perry*!); CHEKIANG (*Faber*, 246, 1025!), Ningpo Mts. (*Faber*, 222!); NORTH CENTRAL CHINA: Hykiascien (*Hugh*!); HUPEH: Patung (*A. Henry*, 1746, 3862), Ichang (*A. Henry*, 3479!); HUNAN: Shihmen (*A. Henry*, 7544!); SZECHUEN: Wushan (*A. Henry*); COREA: Port Hamilton (*Wilford*, 710!), Chusan (*Wilford*, 933 partim!). Mus. Brit.; Herb. Kew.

Japan.

It would be perhaps preferable to call this *C. gibba*, Boott; for Wahlenberg (also Willdenow and Schkuhr) say their *C. gibba* had the style 2-fid; so that their plant was not our *C. gibba*. On this ground, Boott started the new name *C. anomala*, but he afterwards accepted "*gibba*."

52. **Carex Goodenovii**, *J. Gay, in Ann. Sc. Nat.* sér. 2, xi. (1839) p. 191 (Godenowii *err. typogr.*); *Hook. f. Student's Fl. Brit.* ed. 3, p. 455.

Carex cæspitosa, *Linn. Sp. Pl.* ed. 1, p. 978, ed. 2, p. 1388, pro magnâ parte; *Gooden. in Trans. Linn. Soc.* ii. (1798) p. 195, t. 21; *Schkuhr, Riedgr.* i. p. 57, ii. p. 27, t. Aa. figg. 85 *a*, 85 *b*; *Quensel, in Svensk Bot.* iv. t. 222.

Carex vulgaris, *Fries, Novit. Mant.* iii. (1842) pp. 153–6; *Boott, Carex*, p. 166 (varieties all excl.), tt. 557, 558, 562, 563, 565; *Boeck. in Linnæa*, xl. (1876) p. 416; *C. B. Clarke, in Hook. f. Fl. Brit. Ind.* vi. p. 711; *Franch. in Nouv. Arch. Mus.* sér. 3, ix. (1897) pp. 124, 159.

Carex decidua, *Boott, Carex*, p. 63 (*i. e.* n. 1 planta Douglasi) et auctt. Amer.

CHIHLI: Peking (*David*); SHANTUNG: Chefoo (*Fauvel*); KIANGSI (*Miss Reid*), Kiukiang (*Shearer*!). Herb. Kew.

Common throughout the cool North Hemisphere; very common in Japan.

On referring to J. Gay's classical paper on *C. Goodenovii*, it will be seen that it only differs from *C. cæspitosa*, Palmstr., by the stronger nervation of the utricle. Linnæus included both (and other plants) under his "*cæspitosa*"; he probably had but a grain of the comparatively rare *C. cæspitosa*, Palmstr., to several ounces of the very common *C. Goodenovii*; but the name *C. cæspitosa* (Linn. partim) is reserved by botanists for the plant of Palmstruch.

53. **Carex Hancei,** *C. B. Clarke*, n. sp.

Undique pilosa. *Rhizoma* repens. *Culmi* 20 unc. longi, hemiscaposi. *Folia* usque ad 20 unc. longa, 3 lin. lata, in utrâque facie pilosa. *Spicæ* 2, terminalis mascula in pedunculo robusto piloso 3½–4 unc. longo, altera feminea in pedunculo subincluso; *bracteæ* 9 lin. longæ, patulæ, lanceolatæ, vagina 1 unc. longa, inflata, fissa. *Spica* mascula 9 lin. longa, 2–2½ lin. lata, ferrugineo-brunea; glumæ lanceolatæ, vix mucronatæ, in carinâ lutescentes. *Spica* feminea 9 lin. longa, 6 lin. lata, 20-nucigera, fusce viridis. *Glumæ* ovatæ, obtusæ, breviter aristatæ, utriculis (aristâ inclusâ) breviores, in lateribus scarioso-albæ. *Stylorum* rami 3, longi. *Utriculus* 2 lin. longus, ovoideus, subinflatus, multi-nervatus, dense pilosus; rostrum 1½–2 lin. longum, lineare, dense pilosum, dentibus 2 longis linearibus. *Nux* prava, stylobasi tenui, tortâ.

KIANGSU: Hills of Fengwangshan (*Forbes*!); CHEKIANG: Hills near Huchau (*Forbes*!); KIANGSI: Kiukiang (*Shearer*!). Mus. Brit.; Herb. Kew.

This was pasted down in herb. Hance with *C. Sampsoni*, Hance, but was called *C. longerostrata*, C. A. Meyer, in hb. Kew, which the male spike resembles.

54. **Carex Hancockiana,** *Maxim. in Bull. Soc. Mosc.* liv. (1879) pp. 66–68; *Franch. in Journ. de Bot.* iv. (1890) p. 320, *in Nouv. Arch. Mus.* sér. 3, ix. (1897) pp. 149, 161.

Carex Buxbaumii, *Franch. Pl. David.* i. p. 130, non *Wahlenb.*

Carex Peiktusani, *Komarov, in Act. Hort. Petrop.* xviii. (1901) p. 445.

CHIHLI: Peking, Mts. Pohuashan (*Bretschneider*!), Mts. Siaowutaishan, 3500–5000 feet (*Möllendorff*, 89 !), Trappist Monastery (*Bodinier*, 100 !), Jehol (*David*, 1821 !). Herb. Kew.

Mandshuria.

55. **Carex Harlandi,** *Boott, Carex* (1860), p. 87, t. 255; *Benth. Fl. Hongk.* p. 403; *Franch. in Nouv. Arch. Mus.* sér. 3, ix. (1897) p. 176 (Boottii citat. p. 132 excl.), x. (1898) p. 94.

HUPEH: Changyang, 6000 feet (*E. H. Wilson*, 435 !); HONGKONG (*Harland*, 690 ! *Lamont*, 883 ! *Faurie*, 15778 !), West Point (*Wilford*, 313 ! *C. Wright*), Mt. Gough (*Bodinier*, 101, 102 !). Mus. Brit.; Herb. Kew.

Franchet *l. c.* cites also Boott, Carex, iv. p. 132, where Boott writes of "*C. manca*, Boott, var. *a. Harlandi*," which Franchet supposes to mean a reduction of the sp. *C. Harlandi*, Boott, to a var. of *C. manca*.

56. **Carex heterolepis,** *Bunge, in Mém. Soc. Etrang. St. Pétersb.* ii. (1834) p. 137, *et Enum. Pl. China Bor.* p. 69.

NORTH-EAST CHINA: Panschan Mts. (*Bunge* !); CHIHLI: Peking (*Williams*, 13829 !); SHINGKING: Jehol (*David* !). Mus. Brit.; Herb. Kew.

57. **Carex heterostachya,** *Bunge, in Mém. Soc. Étrang. St. Pétersb.* ii. (1834) p. 142; *Baker et S. Moore, in Journ. Linn. Soc., Bot.* xvii. (1880) p. 389.

Carex Bungeana, *Debeaux, Fl. Tientsin*, p. 45.

Carex songarica, *Franch. in Nouv. Arch. Mus.* sér. 3, x. (1898) p. 92 in Obs.

CHINA BOREALIS (*Bunge* !); CHIHLI: Peking (*Williams*, hb. *Hance*, 11446 !); SHINGKING: Liao R. (*Ross*, 14 !), Jaolin (*Ross*, 391 !); SHANTUNG: Tchefou (*Wykeham Perry* !); NORTH CENTRAL CHINA: Mt. Laoysan (*Hugh* !). Mus. Brit.; Herb. Kew.

This species has been very generally united with *C. nutans*, Host; but Franchet says correctly that it is nearer *C. songorica*, Kar. et Kir., of which it has nearly the utricles. It differs a good deal from *C. nutans*, Host; it is slenderer, the inflorescence erect with 3–4 approximate spikes (the spikes are nearly always remote in *C. nutans*); the leaves are much narrower and glaucous beneath by reason of their being coated with grey, capitate glands. The utricles have fewer nerves; when young they have in the lower half many large immersed yellow oil-glands, when ripe they are brown, not shining, nearly nerveless. The utricles are narrowed into a longer narrower beak (than in *C. nutans*) and the two teeth are smaller. The stolons are long, slender, hardening into long, slender wiry roots. *C. songorica*, Kar. et Kir., is a larger plant with remote spikes: the ripe fruits are chestnut-red, almost black, shining, and subbaccate.

58. **Carex humilis**, *Leysser, Fl. Hal.* ed. 1 (1761) p. 175, ed. 2 (1783) p. 235; *Boeck. in Linnæa*, xli. (1877) p. 198.

Carex clandestina, *Gooden. in Trans. Linn. Soc.* ii. (1794) p. 167; *Schkuhr, Riedgr.* i. p. 81, ii. p. 58, t. K. fig. 43; *Kunth, Enum. Pl.* ii. p. 476; *Baker et S. Moore, in Journ. Linn. Soc., Bot.* xvii. (1880) p. 389.

SHINGKING: S. side Fungwhangshan (*Ross*, 25!). Herb. Kew.

A European species, extending to the Altai.

59. **Carex ichangensis**, *C. B. Clarke*, n. sp.

Culmi 6–9 unc. longi, rigide cæspitosi. *Folia* cum culmo æquilonga, $1\frac{1}{2}$ lin. lata, glabra, supra parce scabrida, subtus obscure glanduloso-impressa. *Spicæ* 5, distantes; terminalis mascula, 1 unc. longa, $\frac{1}{10}$ unc. lata, albo-viridis aut alba; spicæ femineæ 1 unc. longæ (juniores) perangustæ; *bracteæ* cum inflorescentiâ fere æquilongæ, foliiformes, virides. *Glumæ* femineæ oblongo-ellipticæ, albo-scariosæ, 3-nerviæ, nervo centrali viridi in aristam excurrente. *Stylus* 3-fidus. *Utriculus* 1 lin. longus, oblongo-ellipsoideus, stipitatus, trigonus, multi-striatus, viridis, undique tenuius pilosus, apice angustatus vix rostratus, ore subintegro.

HUPEH: Ichang (*Henry*, 7860, 7894!). Herb. Kew.

Henry n. 7860 is *C. lanceolata* var. *macrosandra*, Franchet, in Nouv. Arch. Mus. sér. 3, ix. (1897) p. 169; but the description is so unlike *C. ichangensis* that I suppose two plants have been mixed under the number 7860.

60. **Carex immanis**, *C. B. Clarke*, n. sp.

Culmus 2–3-pedalis. *Folia* 2 pedes longa, 6 lin. lata. *Spicæ* 6–8, $4\frac{1}{2}$ unc. longæ, $2\frac{1}{2}$ lin. latæ, terminalis basi mascula apice feminea. *Glumæ* femineæ utriculis breviores, truncatæ, mucrone brevi. *Styli* rami 2. *Utriculus* $1\frac{1}{4}$–2 lin. longus, ovoideus, levis, glaber, nervatus, non (vel minute) rostratus.

This species is perhaps nearest to *C. teres*, Boott (Carex,

t. 167), a Sikkim sp. In the fine specimens of Henry, many of the utricles contain two nuts.

HUPEH: Patung (*Henry*, 6113!). Herb. Kew.

61. **Carex incurva,** *Lightf. Fl. Scot.* (1777) p. 544, t. 24. fig. sinistr.; *Schkuhr, Riedgr.* i. p. 27, t. Hh. fig. 95; *Kunth, Enum. Pl.* ii. p. 375; *Boott, Carex,* p. 210; *Boeck. in Linnæa,* xxxix. (1875) p. 48; *C. B. Clarke, in Hook. f. Fl. Brit. Ind.* vi. p. 700; *Franch. in Nouv. Arch. Mus.* sér. 3, viii. (1896) pp. 223, 240.

SZECHUEN: Tongolo, in Kiala, on Tibet frontier (*Soulié*, 579!).

Cold places in the north hemisphere.

62. **Carex intermedia,** *Good. in Trans. Linn. Soc.* ii. (1794) p. 154; *Schkuhr, Riedgr.* i. p. 16, ii. p. 9, t. B. fig. 7; *Kunth, Enum. Pl.* ii. p. 376; *Regel, Fl. Ussur.* p. 180; *Meinsh. in Act. Hort. Petrop.* xviii. (1901) pp. 288, 320.

Carex disticha, *DC. Fl. Franç.* iii. p. 104; *Boott, Carex,* p. 125, t. 410; *Boeck. in Linnæa,* xxxix. (1875) p. 139, varr. β, δ, excl.; *Franch. in Bull. Soc. Philom. Paris,* sér. 8, vii. (1895) p. 29, *in Nouv. Arch. Mus.* sér. 3, viii. (1896) pp. 210, 239; non (aut pro parvâ parte) *Hudson, Fl. Angl.* (1762) p. 347.

Carex siccata, *Franch. Pl. David.* i. p. 319, non *Dewey*; *fide Franch. in Nouv. Arch. Mus.* sér. 3, viii. (1896) p. 210.

SHINGKING: Moukden (*Webster*, 188!), Jaoling (*Ross*, 381!); SHANTUNG: Chefoo (*Fauvel*); MONGOLIA CHINENSIS (*David*); NORTH CENTRAL CHINA (*Hugh*!). Mus. Brit.; Herb. Kew.

Cool places in the North Hemisphere.

For his *C. disticha*, type, Hudson cites in his first edition Pluk. Phyt. t. 34. fig. 7, drawn from a plant now in the Mus. Brit. which is *C. arenaria*, Linn. In his second edition, Hudson repeats this citation, and adds Micheli, Gen. t. 33. fig. 3, an excellent drawing, which is, beyond doubt of mine, *C. arenaria*, Linn., also.

As to Hudson's *C. disticha* β, he cites, in both first and second editions, only Pluk. Phyt. t. 34. fig. 4, which is totally unlike *C. intermedia*, Gooden.

It is possible that Hudson, among the material for his *C. disticha*, had plants of *C. intermedia*, and merely cited the pictures to give a general idea of his species. If that had been so, I prefer the name *C. intermedia*, Good.

63. **Carex ischnostachya,** *Steud. Cyp.* 1855, p. 222; *Franch. in Nouv. Arch. Mus.* sér. 3, x. (1898) p. 47 cum syn. p. 96.

Carex Ringoldiana, *Boott, in Mem. Amer. Acad.* n.s. vi. (1859) p. 419, *Carex*, p. 199, *Ic. Ined. in hb. Kew.* 671.

LUCHU ARCHIPELAGO (*C. Wright*, 365, 367 !). Herb. Kew.

Frequent in Japan.

64. **Carex Jackiana,** *Boott, in Proc. Linn. Soc.* i. (1846) p. 260, *in Trans. Linn. Soc.* xx. (1847) p. 132, *Carex*, p. 9, t. 25; *C. B. Clarke, in Hook. f. Fl. Brit. Ind.* vi. p. 735; *Franch. in Nouv. Arch. Mus.* sér. 3, x. (1898) pp. 43, 46.

Carex oxyphylla, *Franch. in Nouv. Arch. Mus.* sér. 3, x. (1898) pp. 57, 97.

Carex instabilis, *Boott, MS.*

YUNNAN (*Delavay*, 2669 !), Mosoyn (*Delavay*, 2524 !).

Khasia, Java.

Franchet, by inadvertence, founded his *C. oxyphylla* on the same two collections of Delavay which he had cited as the sole ground for the occurrence of *C. Jackiana* in China. The area of this species depends on its diagnosis; a var. β. *minor* is found in Ceylon and the Nilghiris; see Hook. f. in Trimen Fl. Ceylon, vol. v. p. 113. Several closely allied species occur in Japan.

65. **Carex japonica,** *Thunb. Fl. Jap.* (1784) p. 38; *Schkuhr, Riedgr.* i. p. 115, t. Ww. fig. 110; *Baker et S. Moore, in Journ. Linn. Soc., Bot.* xvii. (1880) p. 389; *Franch. in Nouv. Arch. Mus.* sér. 3, x. (1898) pp. 77, 78, var. α et β partim, non *Boott.*

Carex Motoskei, *Miq. in Ann. Mus. Bot. Lugd.-Bat.* ii. (1865–6) p. 148; *Franch. et Sav. Enum. Pl. Jap.* ii. pp. 140, 584.

Carex aphanolepis, *Franch. et Sav. Enum. Pl. Jap.* ii. pp. 152, 580.

Carex trichostyles, *Franch. et Sav. Enum. Pl. Jap.* ii. pp. 152, 581.

Carex Doniana, var. minor, *Boott, MS.*

CHIHLI: Peking (*Bretschneider* !); SHINGKING: Chiensan (*Ross*, 432, 579 !); NORTH CENTRAL CHINA: Mt. Ngosan (*Hugh* !), Kusan (*Hugh*, 166 !). Mus. Brit.; Herb. Kew.

Common in Japan.

This is a slender plant, with scattered spikes; the largest female spike, figured excellently by Schkuhr, is 7 lin. long, ellipsoid; Thunberg described it as "ovate." Boott united it with the Indian *C. alopecuroides*, D. Don, which view is by no means impossible; but then, taking for his "type" the finest form of his broad species, fig. 257 (Boott's *C. japonica*, type) has spikes

2¼ in. long, and is the plant recorded in the present list as *C. alopecuroides*, D. Don, var. *chlorostachya*, C. B. Clarke. *C. japonica*, Thunb., as understood here, differs from *C. alopecuroides*, D. Don, by its smaller size and shorter spikes; moreover the under surface of the leaves is glabrate, not glaucous by reason of a dense covering of capitate white glands; the leaf-sheaths are not fimbriate; there is very often a leaf, or empty bract, added about the middle of the stem.

66. **Carex lamprosandra**, *Franch. in Bull. Soc. Philom. Paris*, sér. 8, vii. (1894) p. 45, *et in Nouv. Arch. Mus.* sér. 3, ix. (1897) p. 179, x. (1898) p. 94.

Yunnan: Mosoyn, 8000 feet (*Delavay*, 1743!).

Not examined.

67. **Carex lancifolia**, *C. B. Clarke*, n. sp.

Hemiscaposa. *Folia* basalia 6–8 unc. longa, 4 lin. lata, glabra. *Culmi* florentes 4-8 unc. longi, efoliati. *Bracteæ* vix 6 lin. longæ, vaginantes, limbo setaceo. *Spicæ* 4, distantes, terminalis omnino mascula 6 lin. longa, ¾ lin. lata, purpurea. *Spica* feminea 8 lin. longa, 2 lin. lata, lanceolata, 4–6-nucigera. *Glumæ* 2 lin. longæ, oblongæ, apice truncatæ vix mucronatæ, carinâ angustâ viridi lateribus læte rubro-bruneis. *Stylus* 3-fidus. *Utriculus* 2–3 lin. longus, anguste oblanceolatus, in dimidiâ parte inferiore contractus, sublinearis, trigonus, subenervius, minute pilosus; rostrum minimum, lineare, apice integrum. *Nux* ellipsoidea, trigona, basi in pseudo-stipitem linearem contracta; stylobasis angusta.

Hupeh (*Henry*, 5467!), Patung (*Henry*, 5368!), 6500 feet (*E. H. Wilson*, 1650!). Mus. Brit.; Herb. Kew.

68. **Carex laticeps**, *Franch. in Nouv. Arch. Mus.* sér. 3, ix. (1897) p. 178, x. (1898) p. 94; *Diels, in Engl. Bot. Jahrb.* xxix. (1901) p. 232.

Kiangsu: Shanghai (*Faber*, 241 *f*!); Anwhei: Nanking (*Faber*, 1181!); Kiangsi: Chinkiang et Kiukiang (*Maries*!); Hupeh: Ichang (*A. Henry*, 3332!). Herb. Kew.

69. **Carex Lehmanni**, *Drej. Symb. Caricol.* (1844) p. 13, t. 2; *Boott, Carex*, p. 113, t. 361; *Boeck. in Linnæa*, xl. (1876) p. 395; *C. B. Clarke, in Hook. f. Fl. Brit. Ind.* vi. p. 730; *Franch. in*

Bull. Soc. Philom. Paris, sér. 8, vii. (1895) p. 35, *in Nouv. Arch. Mus.* sér. 3, ix. (1897) pp. 148, 161.

HUPEH: Fang, 9000 feet (*Henry*, 6837!); SZECHUEN: Mt. Omei summit (*Faber*, 1125!), Tachienlu, alt. 9000–13,500 feet (*Pratt*, 646! *Soulié*, 637), Tongolo (*Soulié*, 331!), Tchenkeoutin (*Farges*!); YUNNAN: Tsangchan (*Delavay*, 1738!), Maeulchan 11,500 feet (*Delavay*, 4677!). Mus. Brit.; Herb. Kew.

Himalaya.

70. **Carex leiorrhyncha**, *C. A. Meyer, in Mém. Sav. Etrang. St. Pétersb.* i. (1831) p. 217, t. 9; *Kunth, Enum. Pl.* ii. p. 388; *Kunze, Suppl. Schkuhr*, p. 9, t. 2. fig. 1; *Boott, Carex*, p. 189; *Boeck. in Linnæa*, xxxix. (1875) p. 96; *Franch. Pl. David.* i. p. 319, *et in Journ. de Bot.* iv. (1890) p. 320, *et in Nouv. Arch. Mus.* sér. 3, viii. (1896) p. 213; *Palibin, Fl. Koreæ*, iii. p. 23; cf. *C. B. Clarke, in Hook. f. Fl. Brit. Ind.* vi. p. 702.

Carex leiocarpa, *Franch. in Nouv. Arch. Mus.* sér. 3, viii. (1896) p. 239 err. typogr., non *C. A. Meyer*.

CHIHLI: Jehol (*David*, 1868), Peking (*Bodinier*, 86!); SHINGKING: Chienshan (*Ross*, 392, 495, 528!), Jaoling (*Ross*, 382!), Moukden (*James*); COREA: Soul (*Kalinowski*). Herb. Kew.

Central Asia, Mandshuria.

Bongard printed, in the list of his collections at Sitka, *C. leiocarpa*, C. A. Meyer; by an early slip this was copied as *C. leiorrhyncha*, C. A. Meyer, which species is still being vainly looked for in Alaska.

71. **Carex ligata**, *Boott, in Benth. Fl. Hongk.* (1861) p. 402, *et Carex* (1867), p. 211; *Franch. in Nouv. Arch. Mus.* sér. 3, ix. (1897) p. 164, t. 7. fig. 1, x. (1898) p. 93.

Carex hongkongensis, *Franch. in Nouv. Arch. Mus.* sér. 3, x. (1898) p. 93 in notâ.

HONGKONG (*Harland*, 790 ex parte! *C. Wright*, 8, 78, 79, 602! *Faurie*, 15774! *Bon*, 138!), Mt. Kellet (*Bodinier*, 1432!), Mt. Gough (*Wilford*, 263! *Bodinier*, 501!), Victoria Peak (*Bodinier*, 108, 109!). Herb. Kew.

72. **Carex ligulata**, *Nees, in Wight, Contrib.* (1834) p. 127; *Kunth, Enum. Pl.* ii. p. 516; *Boott, Carex*, p. 45, t. 113; *Boeck. in Linnæa*, xli. (1877) p. 305; *C. B. Clarke, in Hook. f. Fl. Brit.*

Ind. vi. p. 747; *Franch. in Nouv. Arch. Mus.* sér. 3, x. (1898) pp. 69, 98; *Diels, in Engl. Bot. Jahrb.* xxix. (1901) p. 233.

CHEKIANG: Lu Mts., 3000 feet (*Faber*, 249), Konit Cheon (*Simon*); HUPEH: 6700 feet (*E. H. Wilson*, 1009!), Patung (*A. Henry*, 1864!), Nanto (*A. Henry*, 3948!); SZECHUEN (*Farges*, 910 *a*!); COREA: Tsusima (*Wilford*, 902!). Mus. Brit.; Herb. Kew.

India, Japan.

73. **Carex litorrhyncha**, *Franch. in Bull. Soc. Philom. Paris*, sér. 8, vii. (1895) p. 84, *et in Nouv. Arch. Mus.* sér. 3, viii. (1896) pp. 196, 209; *Diels, in Engl. Bot. Jahrb.* xxix. (1900) p. 229.

YUNNAN: Tchengfongchan (*Delavay*, 4907!).

This species is allied to *C. capillacea*, Boott; its utricle has a much longer beak.

74. **Carex longicruris**, *Nees, in Wight, Contrib.* (1834) p. 124; *Kunth, Enum. Pl.* ii. p. 417; *Boott, Carex*, p. 59, t. 157; *Boeck. in Linnæa*, xxxix. (1875) p. 148; *C. B. Clarke, in Hook. f. Fl. Brit. Ind.* vi. p. 705; *Franch. in Bull. Soc. Philom. Paris*, sér. 8, vii. (1895) p. 85, *et in Nouv. Arch. Mus.* sér. 3, viii. (1896) pp. 245, 260.

Western India; from the Himalayas to Ceylon.

Var. *β*. **Henryi**; paniculâ magis effusâ, ramo imo sæpe 6–10 unc. longo; utriculo minore.

Carex Henryi, *C. B. Clarke, ex Franch. in Nouv. Arch. Mus.* sér. 3, viii. (1896) p. 243 in Obs.

Carex longicruris, *Diels, in Engl. Bot. Jahrb.* xxix. (1900) p. 230.

CHEKIANG: Ningpo Mts. (*Faber*, 10!); HUPEH: Ichang (*A. Henry*, 4266!), Nanto (*A. Henry*, 4495!), Changyang (*A. Henry*, 7502!), Patung (*A. Henry*, 5185, 5186!); SZECHUEN: Mt. Omei, 4000 feet (*Faber*, 1153!); YUNNAN: Tchenfongchan (*Delavay*!). Mus. Brit.; Herb. Kew.

Neither *C. longicruris*, type, nor this var. *Henryi* has been seen from North-east India.

75. **Carex longipes**, *D. Don, in Trans. Linn. Soc.* xiv. (1825) p. 329; *Kunth, Enum. Pl.* ii. p. 418; *Boott, Carex*, p. 190; *Boeck. in Linnæa*, xl. (1876) p. 376; *C. B. Clarke, in Hook. f. Fl. Brit. Ind.* vi. p. 704; *Franch. in Nouv. Arch. Mus.* sér. 3, viii. (1896) pp. 244, 260; *Diels, in Engl. Bot. Jahrb.* xxix. (1900) p. 230.

Carex Bodinieri, *Franch. in Bull. Soc. Philom.* sér. 8, vii. (1895) p. 85, *in Nouv. Arch. Mus.* sér. 3, viii. (1896) pp. 243, 260.

HUPEH: Patung (*A. Henry*, 4713!); HONGKONG: Happy Valley (*Bodinier*, 334!). Herb. Kew.

India.

76. **Carex longistolon**, *Franch. in Nouv. Arch. Mus.* sér. 3, viii. (1896) pp. 243, 260; *Diels, in Engl. Bot. Jahrb.* xxix. (1900) p. 230.

HUPEH: Ichang (*A. Henry*, 86, 2776!); SHENSI: Paokisan, Mt. Misouansan (*Hugh*!). Mus. Brit.; Herb. Kew.

Endemic.

77. **Carex longkiensis**, *Franch. in Bull. Soc. Philom. Paris,* sér. 8, vii. (1895) p. 86, *et in Nouv. Arch. Mus.* sér. 3, ix. (1897) p. 181, x. (1898) p. 94; *Diels, in Engl. Bot. Jahrb.* xxix. (1900) p. 232.

YUNNAN: Longki (*Delavay*).

Not seen. Allied to *C. fragilis*, Boott, *fide* Franchet.

78. **Carex luctuosa**, *Franch. in Nouv. Arch. Mus.* sér. 3, ix. (1897) pp. 130, 160; *Diels, in Engl. Bot. Jahrb.* xxix. (1900) p. 231.

SZECHUEN: Tchenkeoutin (*Farges*!).

"Style 2-fid; uppermost spike male; utricle ovate, attenuate into a short, rough beak; next *C. rigida*."—*Franchet.*

79. **Carex macrocephala**, *Spreng. Syst.* iii. (1826) p. 808; *Kunth, Enum. Pl.* ii. p. 428; *Hook. Fl. Bor.-Amer.* ii. p. 215, t. 216; *Regel, Fl. Ussur.* p. 180, t. 12. figg. 8–12; *Boott, Carex,* p. 27, t. 69; *Boeck. in Linnæa,* xxxix. (1875) p. 66; *Debeaux, Fl. Tchefou,* p. 153; *Franch. in Nouv. Arch. Mus.* sér. 3, viii. (1896) pp. 237, 241; *Palibin, Fl. Koreæ,* iii. p. 23; *hb. Willd. MS.* fide *Kunth.*

Carex anthericoides, *Presl, Rel. Haenk.* i. (1828) p. 204.

SHANGTUNG (*Favel*); CHEKIANG (*Faber*, 18!), Ningpo (*Hance*, 13411!); COREA (*Oldham*, 918, 1076!). Mus. Brit.; Herb. Kew.

Japan to Alaska and Oregon.

Culms unisexual.

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80. **Carex maculata,** *Boott, in Trans. Linn. Soc.* xx. (1848) p. 128, *et Carex,* i. p. 9, t. 26; *Boeck. in Linnæa,* xli. (1877) p. 191; *Franch. et Savat. Enum. Pl. Jap.* ii. p. 572; *C. B. Clarke, in Hook. f. Fl. Brit. Ind.* vi. p. 735; *Franch. in Nouv. Arch. Mus.* 3me sér., x. (1893) pp. 44, 96; *Palibin, Fl. Koreæ,* iii. p. 23.

Carex micans, *Boott, in Mem. Amer. Acad.* n. s. vi. (1859) p. 419.

CHEKIANG: Lu Mts. (*Faber,* 244, 248!); HUPEH: Ichang (*A. Henry,* 3650!); KWANGTUNG: Canton (*Sampson,* 368, 1879!); COREA: Chusan (*Wilford,* 933!). Mus. Brit.; Herb. Kew.

Japan, Australia, India.

81. **Carex manca,** *Boott, in Benth. Fl. Hongk.* (1861) p. 402, *et Carex,* iv. (1867) p. 131, t. 425; *Franch. in Nouv. Arch. Mus.* 3me sér., ix. (1897) p. 175, x. (1898) p. 93.

HUPEH: Patung (*E. H. Wilson,* 1658!); HONGKONG (*Harland,* 790 ex parte! *Hance,* 6648!). Mus. Brit.; Herb. Kew.

82. **Carex manciformis,** *Franch. in Nouv. Arch. Mus.* 3me sér., x. (1898) pp. 63, 97; *Diels, in Engl. Bot. Jahrb.* xxix. (1901) p. 232.

HUPEH (*E. H. Wilson,* 544!), Ichang (*A. Henry,* 3390, 7889!); Changyang (*A. Henry,* 5222!); SZECHUEN: Chunking (*Faber,* 1143!). Mus. Brit.; Herb. Kew.

The leaves are glaucous beneath by reason of the dense clothing of stalked grey glands. This is one of the Chinese group of *Carex* in which the nut has a cylindric neck dilated at top into a disk (*Franchet*).

83. **Carex Maubertiana,** *Boott, Carex,* i. (1858) p. 45, t. 114.

Carex hebecarpa, *C. B. Clarke, in Hook. f. Fl. Brit. Ind.* vi. p. 747, vix *C. A. Meyer.*

Carex hebecarpa, var. β. Maubertiana, *Franch. in Nouv. Arch. Mus.* 3me sér., x. (1898) p. 70; cf. *Diels, in Engl. Bot. Jahrb.* xxix. (1901) p. 233.

Carex ligulata, varr. minor et angustifolia, *Boott! MS.*

HUPEH: Nanto, R. Yangtze (*E. H. Wilson,* 775!); Konitcheou (*Perny*). Herb. Kew.

North-east India; Assam.

84. **Carex melinacra,** *Franch. in Nouv. Arch. Mus.* 3me sér., ix. (1897) pp. 135, 160.

YUNNAN: foot of Tsangchan, near Tali (*Delavay,* ex *Franchet*).

Not seen. "Style 2-fid; uppermost spike female at top; utricle orbicular, resinous-punctate, suddenly contracted into a minute beak"—*Franchet,* who says it is allied to *C. sadoensis,* one of the Sect. *Vulgares*; but, from the description, it should be very near *C. cernua,* Boott, or even identic with it.

C. notha, Kunth [Franch. in Bull. Soc. Philom. Paris, 8me sér., vii. (1895) p. 87], from Tali at the foot of Tsangchan, does not appear taken up in Nouv. Arch. Mus. (1897), unless *C. melinacra* is it.

85. **Carex Michauxiana,** *Boeck. in Linnæa,* xli. (1877) p. 336; *Franch. in Nouv. Arch. Mus.* 3me sér., x. (1898) pp. 81, 99.

Carex rostrata, *Mich. Fl. Bor.-Amer.* ii. (1803) p. 173; *Boott, Carex,* ii. p. 91, t. 267; non *Stokes.*

Carex folliculata, *Rudge, in Trans. Linn. Soc.* vii. (1804) p. 98, t. 9. fig. 4; non *Linn.*

Carex xanthophysa, varr. nana et minor, *Dewey, in Sillim. Amer. Journ.* ser. I. xiv. (1828) p. 353, t. R. figg. 57, 58.

Carex abacta, *L. H. Bailey, in Bull. Torrey Bot. Club,* xx. (1893) p. 427.

Carex multinervia, *Kuekenthal*! *MS. in Faber* n. 243 *a.*

KIANGSU: Shanghai (*Faber,* 243 *a*!). Herb. Kew.

Frequent in Japan; extending to Kamschatka, and in North America to North Labrador.

86. **Carex microglochin,** *Wahl. in Vet. Akad. Stockh.* xxiv. (1803) p. 140; *Schkuhr, Riedgr.* ii. p. 32, t. Ssss. fig. 110; *Kunth, Enum. Pl.* ii. p. 424; *Boott, Carex,* iv. p. 174, t. 589; *Boeck. in Linnæa,* xxxix. (1875) p. 32; *C. B. Clarke, in Hook. f. Fl. Brit. Ind.* vi. p. 712; *Franch. in Bull. Soc. Philom. Paris,* 8me sér., vii. (1895) p. 29, *et in Nouv. Arch. Mus.* 3me sér., viii. (1896) pp. 206, 210.

Uncinia microglochin, *Spreng. Syst.* iii. p. 830.

SZECHUEN: Tongolo, in Kiala (*Soulié*!).

Cool parts of the North Hemisphere; also South Andes.

87. **Carex microstoma,** *Franch. in Bull. Soc. Philom. Paris,* 8me sér., vii. (1894) p. 48.

Carex pallescens, *Linn.*, forma, *Franch. in Bull. Soc. Philom. Paris*, 8me sér., vii. (1895) p. 89.

Yunnan: Longki (*Delavay*).

Not seen. I do not find either *C. pallescens* or *C. microstoma* in the Index to Franchet's *Carex* in Nouv. Arch. Mus. 3me sér., x. (1898) p. 114.

88. **Carex mollicula,** *Boott, Carex*, iv. (1867) p. 192, *et Ic. ined. in hb. Kew.* t. 650; *Franch. in Nouv. Arch. Mus.* 3me sér., x. (1898) pp. 73, 98.

Corea: Tsusima (*Wilford*, 842!); North Central China: Tonsianfu (*Hugh*!). Mus. Brit.; Herb. Kew.

Japan, frequent.

This is very near *C. japonica*, Thunb., *i. e.* its small form. In short, Boott's first specimen of *C. japonica* in his own herbarium, named by his hand, is C. Wright n. 15, which I call *C. mollicula*, Boott. Boott lays stress on the red glands immersed in the utricle of *C. mollicula*, which are prominent in Wilford n. 842, but wanting in most of the Japan material. *C. mollicula* must be diagnosed as having a very small subsessile male spike, and the style-branches shorter than the utricle.

89. **Carex mosoynensis,** *Franch. in Bull. Soc. Philom. Paris*, 8me sér., vii. (1895) p. 31, *et in Nouv. Arch. Mus.* 3me sér., viii. (1896) pp. 242, 259.

Yunnan: Mosoyn (*Delavay*, 4458, 4831!).

This species, again, may be called *C. brunnea*, Thunb., in a broad sense. It differs from both *C. Tonnerrei* and *C. gentilis* in its larger utricle; also from *C. Tonnerrei* in its strong creeping rhizome, and from *C. gentilis* by its nearly glabrous utricle.

90. **Carex moupinensis,** *Franch. in Nouv. Arch. Mus.* 2me sér., x. (1888) p. 102, 3me sér., viii. (1896) pp. 257, 260, t. 7. fig. 2, *et Pl. David.* ii. p. 140; *Diels, in Engl. Bot. Jahrb.* xxix. (1900) p. 231.

Homolostachys sinensis, *Boeck. Cyp. Novæ*, Heft 1 (1888) p. 38.

Hupeh: Ichang (*Henry*, 1234!); Szechuen: Moupin (*David*!); Yunnan: Keoupatan (*Delavay*!). Mus. Brit.; Herb. Kew.

91. **Carex nemostachys**, *Steud. in Flora*, xxix. (1846) p. 23, *et Cyp.* p. 218; *C. B. Clarke, in Hook. f. Fl. Brit. Ind.* vi. p. 746; *Diels, in Engl. Bot. Jahrb.* xxix. (1901) p. 233.

Carex excurva, *Boott, Carex,* i. p. 57, t. 150; *Boeck. in Linnæa,* xli. (1877) p. 245.

Carex Zollingeri, *Kunze, ex Boeck. in Linnæa,* xli. (1877) p. 242.

KIANGSI: Kiukiang (*Shearer*!); HUPEH: Ichang (*Henry*, 2931, 3531!). Mus. Brit.; Herb. Kew.

India; Japan.

"Le n. 3531 (Hupeh, Ichang) du Dr. Henri s'éloigne" (from *C. gracilirostris*, Franch.) "par ses utricles pubescents," *Franch.* in Nouv. Arch. Mus. 3me sér., ix. (1897) p. 139, l. 17.

92. **Carex neurocarpa**, *Maxim. Prim. Fl. Amur.* (1859) p. 306; *Regel, Fl. Ussur.* p. 181; *Boott, Carex,* iv. p. 193; *Boeck. in Linnæa,* xxxix. (1875) p. 60; *Franch. et Savat. Enum. Pl. Jap.* ii. p. 125; *Franch. in Nouv. Arch. Mus.* 3me sér., viii. (1896) pp. 215, 239; *Palibin, Fl. Koreæ,* iii. p. 24.

CHIHLI: Peking (*Bretschneider*, 790!), Mountains north of Peking (*Tatarinow*); NORTH CENTRAL CHINA: Mt. Laoysan (*Hugh*!), Kusan (*Hugh*, 175!); SHENSI: Paokisan, Mt. Kifonsan (*Hugh*!); COREA: Soul (*Gottsche*). Mus. Brit.; Herb. Kew.

Mandshuria, Amurland, Nippon.

93. **Carex nexa**, *Boott, in Benth. Fl. Hongk.* (1861) p. 402, *et Carex,* iv. (1867) p. 194; *Franch. in Nouv. Arch. Mus.* 3me sér., ix. (1897) p. 174, x. (1898) p. 93.

KIANGSI: Kiukiang (*Miss Reid*! young?); HUPEH: Patung (*E. H. Wilson*, 1654!); HONGKONG (*C. Wright*, 100, 607! *Hance*, 1058! *Harland*, 790 ex parte! *Lamont*, 879! *Wilford*! *Faurie*, 15867, 15870! *Faber*), Mt. Gough (*Wilford*, 349! *Bodinier*, 502), Pic Victoria (*Bodinier*, 105, 106!), Happy Valley (*Bodinier*, 104). Mus. Brit.; Herb. Kew.

This species differs from *C. ligata*, Boott, by having the male spikes 3 in. long, $\frac{1}{8}$ in. broad, with bright straw-coloured glumes $\frac{1}{4}$ in. long.

94. **Carex nubigena**, *D. Don, in Trans. Linn. Soc.* xiv. (1825) p. 326; *Kunth, Enum. Pl.* ii. p. 385; *Boott, Carex,* i. p. 1, t. 2; *Boeck. in Linnæa,* xxxix. (1875) p. 90; *Franch. Pl. David.* ii.

p. 139, *et in Nouv. Arch. Mus.* 3me sér., viii. (1896) pp. 214, 239; *C. B. Clarke, in Hook. f. Fl. Brit. Ind.* vi. p. 702; *Diels, in Engl. Bot. Jahrb.* xxix. (1901) p. 229.

Carex albata, *Miq. in Ann. Mus. Bot. Lugd.-Bat.* iii. p. 123; *Franch. et Savat. Enum. Pl. Jap.* ii. p. 553; *Franch. in Nouv. Arch. Mus.* 3me sér., viii. (1896) pp. 216, 239; *Palibin, Fl. Koreæ,* iii. p. 21.

Carex argyrolepis, *Maxim. ex Franch. et Savat. Enum. Pl. Jap.* ii. p. 126.

Carex yedoensis, *Boeck. in Engl. Bot. Jahrb.* v. (1884) p. 515.

Carex fallax, *Steud. in Zoll. Verz. Ind. Archip.* ii. p. 60, *et Syn. Pl. Cyp.* p. 189.

HUPEH: Patung, 6000 feet (*A. Henry*, 6103!), Hsingshan, 9000 feet (*A. Henry*, 6928!); SZECHUEN: Moupin (*David*); YUNNAN: Mosoyn (*Delavay*, 3831, 4830!), Koualapo (*Delavay*, 2203); COREA: Soul (*Kalinowsky*). Mus. Brit.; Herb. Kew.

Throughout India; Cabul, Malaya, Japan.

The type of *C. albata* has been reduced by Boott's hand to *C. nubigena*; and Franchet has reduced *C. argyrolepis* to *C. albata*. The three species are for me identic.

Var. β. **fallax**, *C. B. Clarke.*

Carex fallax, *Steud. in Zoll. Verz. Ind. Archip.* ii. p. 60, *et Syn. Pl. Cyp.* p. 189; *Boeck. in Linnæa,* xxxix. (1875) p. 57.

Carex pterolepta, *Franch. in Nouv. Arch. Mus.* 3me sér., viii. (1896) pp. 215, 239.

YUNNAN: Mosoyn (*Delavay*, 4459, 4829!); Tsangchan, 8000 feet (*Delavay*, 1745!).

Java.

95. **Carex nutans,** *Host, Gram. Austr.* i. (1801) p. 61, t. 83; *Schkuhr, Riedgr.* ii. p. 82, t. Qqqq. fig. 205; *Kunth, Enum. Pl.* ii. p. 418; *Boott, Carex,* iv. p. 194; *Franch. et Savat. Enum. Pl. Jap.* ii. (1879) pp. 154, 582 (?); *Ledeb. Fl. Ross.* iv. p. 315; *Boeck. in Linnæa,* xli. (1877) p. 296, forma *a*; *Franch. Pl. David.* i. p. 321.

CHIHLI: Peking (*Bretschneider*, 793!), Jehol (*David*); NORTH CENTRAL CHINA: Kusan (*Hugh*, 77!). Mus. Brit.; Herb. Kew.

This species extends from East Europe through Central Asia.

Bretschneider's plant matches the type of Host; all the rest of the Chinese "*nutans*" is *C. heterostachya*, Bunge, which only slightly differs.

96. **Carex obscura**, *Nees, in Wight, Contrib.* (1834) p. 126; *Kunth, Enum. Pl.* ii. p. 515; *Boott, Carex*, i. p. 70, t. 192; *Boeck. in Linnæa*, xl. (1876) p. 395; *C. B. Clarke, in Hook. f. Fl. Brit. Ind.* vi. p. 731, var. β incl.

Carex Souliei, *Franch. in Bull. Soc. Philom. Paris*, 8me sér., vii. (1895) p. 35, *et in Nouv. Arch. Mus.* 3me sér., ix. (1897) pp. 147, 161.

SZECHUEN: Tachienlu (*Soulié*, 412!); YUNNAN: Tongolo (*Soulié*, 958!).

Himalaya.

97. **Carex pachyrrhiza**, *Franch. in Bull. Soc. Philom. Paris*, 8me sér., vii. (1894) p. 45, *et in Nouv. Arch. Mus.* 3me sér., ix. (1897) p. 179, x. (1898) p. 94.

YUNNAN: Tsangchan, near Tapintze, 12,500 feet (*Delavay*, 2808).

Not examined.

98. **Carex panicea**, *Linn. Sp. Pl.* p. 1387; *Schkuhr, Riedgr.* i. p. 110, ii. p. 68, t. Il. fig. 100; *Kunth, Enum. Pl.* ii. p. 460; *Ledeb. Fl. Ross.* iv. p. 291; *Bunge, in Mém. Sav. Etrang. St. Pétersb.* ii. (1835) p. 143; *Boott, Carex*, iv. p. 147, t. 472; *Boeck. in Linnæa*, xli. (1877) p. 154; *L. H. Bailey, in Proc. Amer. Acad.* xxii. (1886) p. 117.

CHINA (fide *Boott*); NORTH CHINA: Lunzuanssy (*Bunge*).

Cool parts of Europe and Asia.

Boott attributes this plant to China, but it does not appear on what authority, and there is no Chinese example in his herbarium. The plant is only introduced in America, *fide* Bailey, *l. c.*; and is not admitted by Franchet in his *Carex* of East Asia. The Chinese habitat, therefore, hangs almost entirely on the correctness of Bunge's identification.

99. **Carex parva**, *Nees, in Wight, Contrib.* (1834) p. 120; *Kunth, Enum. Pl.* ii. p. 419; *Boott, Carex*, i. p. 56, t. 418; *Boeck. in Linnæa*, xxxix. (1875) p. 38; *C. B. Clarke, in Hook. f. Fl. Brit. Ind.* vi. p. 712; *Franch. in Bull. Soc. Philom. Paris*, 8me

sér., vii. (1895) p. 29, *et in Nouv. Arch. Mus.* 3me sér., viii. (1896) pp. 207, 210.

Carex macrorrhyncha, *Kar. et Kir. in Bull. Soc. Nat. Mosc.* iii. (1842) p. 521.

YUNNAN: Tapintze Mts. (*Delavay* !), Mosoyn (*Delavay*, 797, 1746 !).

Himalaya, Central Asia.

100. **Carex pediformis**, *C. A. Meyer, in Mém. Sav. Etrang. St. Pétersb.* i. (1831) p. 219, t. 10, fig. infer.; *Kunze, Suppl. Schkuhr*, p. 65, t. 16; *Kunth, Enum. Pl.* ii. p. 475; *Bunge, Enum. Pl. Chin. Bor.* p. 69; *Maxim. Prim. Fl. Amur.* pp. 309–311 (var. pedunculatâ incl.); *Boott, Carex*, iv. p. 196; *Regel, Fl. Ussur.* p. 181; *Boeck. in Linnæa*, xli. (1877) p. 197; *Baker et S. Moore, in Journ. Linn. Soc., Bot.* xvii. (1880) p. 389; non *Franchet.*

Carex lanceolata, *Boott, in Perry, Exped.* ii. (1857) p. 326; *Franch. et Savat. Enum. Pl. Jap.* ii. p. 134; *Franch. in Nouv. Arch. Mus.* 3me sér., ix. (1897) p. 167; *Palibin, Fl. Koreæ*, iii. p. 23.

CHIHLI (*Bunge*); SHINGKING: south of Korean Gate (*Ross*, 65 !), south of Fungwhangshan (*Ross*, 24 !), Kwandien Mts. (*Ross*, 106 !); SHANTUNG: Chefoo (*Fauvel* !); NORTH CENTRAL CHINA: Paoki, Chifengsan (*Hugh*, 66 !); ANWHEI: Nanking (*Faber*, 242, 1142 !); HUPEH (*E. H. Wilson*, 1666 !), Patung (*A. Henry*, 3747, 5321 !), Changlo (*A. Henry*, 6326 !), Ichang (*A. Henry*, 7890, 7897 !). Mus. Brit.; Herb. Kew.

Cool parts of Europe and Asia.

Var. **rostrata**, *Maxim. Prim. Fl. Amur.* p. 310; *Franch. in Nouv. Arch. Mus.* 3me sér., ix. (1897) p. 166.

SZECHUEN: Tachienlu (*Soulié*, 833 !).

Amurland.

Var. **macrosandra**, *C. B. Clarke.*

Carex lanceolata, var. macrosandra, *Franch. in Nouv. Arch. Mus.* 3me sér., ix. (1897) p. 169; *Diels, in Engl. Bot. Jahrb.* xxix. (1901) p. 232.

HUPEH: Ichang (*Henry*, 1288 !), Changyang (*Henry*, 7846 !). Herb. Kew.

101. **Carex phacodes**, *Spreng.* [err. typogr. "phacota"] *Syst.* iii. (1826) p. 826; *Boott, Carex*, i. p. 63, t. 168; *C. B. Clarke, in*

Hook. f. Fl. Brit. Ind. vi. p. 708; *Franch. in Nouv. Arch. Mus.* 3me sér., ix. (1897) p. 117 pro parvâ parte.

Carex lenticularis, *D. Don, in Trans. Linn. Soc.* xiv. (1825) p. 331, non *Mich.*

Carex platycarpa, *Steud. Syn. Pl. Cyp.* p. 214.

Carex rubro-brunea, *Franch. in Nouv. Arch. Mus.* 3me sér., ix. (1897) pp. 123, 159; non *C. B. Clarke.*

? — YUNNAN: Szemao Mts., 5000 feet (*A. Henry*, 11759!); KWANGTUNG: Canton (*Sampson*, 1879 partim!). Mus. Brit.; Herb. Kew.

Frequent in North India, extending to Japan and New Caledonia; also a form in South Africa.

102. **Carex phænocarpa**, *Franch. in Bull. Soc. Philom. Paris*, 8me sér., vii. (1895) p. 90, *et in Nouv. Arch. Mus.* 3me sér., x. (1898) p. 50.

YUNNAN: Outchay (*Delavay*, 411).

"Habit of *C. japonica*, Thunb." (*Franchet*). Not seen. Franchet says the male spike is solitary and 3–4 cm. long, the utricles glabrous, olivaceous, attenuated into a 2-toothed beak,—on which characters the species may have been near *C. pollens*, q. v.

103. **Carex Pierotii**, *Miq. in Ann. Mus. Bot. Lugd.-Bat.* ii. (1865–66) pp. 148, 211; *Franch. et Savat. Enum. Pl. Jap.* ii. p. 154; *Boeck. in Linnæa*, xli. (1877) p. 157; *Debeaux, Fl. Shanghai*, p. 66, *et Fl. Tchefou*, p. 189; *Franch. in Nouv. Arch. Mus.* 3me sér., x. (1898) pp. 90, 99; *Palibin, Fl. Koreæ*, iii. p. 24.

Carex suberea, *Boott, in Hodgson, Nagasaki* (1861), p. 325 (nomen nudum), *et Carex*, iv. p. 165 (1867), t. 546; *Boeck. in Linnæa*, xli. (1877) p. 186.

KIANGSU: Shanghai (*Maingay*, 363! *Faber*, 290!), Shanghai and Woosung (*Debeaux*); CHEKIANG: Ningpo Mts. (*Faber*, 25!); COREA: Tsusima (*Wilford*, 768!), Port Hamilton (*Oldham*, 1001!). Herb. Kew.

Frequent in Japan.

104. **Carex pisiformis**, *Boott, in Perry, Exped.* ii. (1857) p. 324; *Franch. et Savat. Enum. Pl. Jap.* ii. p. 142; *Baker et S. Moore, in Journ. Linn. Soc., Bot.* xvii. (1880) p. 389; *Franch. in Nouv.*

Arch. Mus. 3me sér., ix. (1897) p. 185, t. 7. fig. 2, x. (1898) p. 94.

SHINGKING: Chienshan (*Ross*, 583!), south of Hingying (*Ross*, 304!); KIANGSI: Kiukiang (*Shearer*!). Herb. Kew.

Japan.

All the above-cited examples from China are very young. I believe they have been correctly referred here by Baker and Moore; but I could hardly have ventured to name them myself.

105. **Carex pollens,** *C. B. Clarke*, n. sp.

Robusta. *Culmi* apice crassi, leves. *Bractea* ima inflorescentiam superans, usque ad ½ unc. lata. *Spica* mascula 1, usque ad 2–3 unc. longa, ¼–⅓ unc. lata. *Spicæ* femineæ 5, distantes, usque ad 3 unc. longæ, densæ, luride virides, utriculis rectangulatim patulis. *Utriculi* (rostro lineari incl.) ⅙ unc. longi, globosi, inter se compressi, leves, glabri; rostri dentes 2 lineari-lanceolati.—Species *C. rhynchophysæ*, C. A. Meyer, peraffinis, ob spicam masculam unicam maximam diversa.

SHINGKING: Moukden, Yalu R. (*James*! *Webster*, 180!), Laoyeh Mts. (*James*!), Sungari R. (*James*!), Changdien (*Ross*, 161!). Herb. Kew.

Also collected at Tokio by Bisset.

Var. β. **angustior,** *C. B. Clarke*. Culmi apice triquetri, sæpe scabri. Folia ¼ unc. lata. Spica mascula usque ad 4 unc. longa.

HUPEH (*A. Henry*, 7858!), Ichang (*A. Henry*, 3356!), Changyang (*A. Henry*, 7101!). Herb. Kew.

James's Moukden collections show the utricles nearly ripe; the species is described solely from these. The remainder of the material is young, and is put with the "type" merely on account of the very long, thick, solitary male spike.

The var. *angustior* may indicate a new species, all the examples being young; the male spike is similar in all.

106. **Carex Prainii,** *C. B. Clarke*, n. sp.

Culmus 2-pedalis, 40–60-stachyus. *Folia* cum culmo æquilonga, ½ unc. lata. *Inflorescentia* 14 unc. longa; bractea ima foliiformis, vaginans; paniculæ partiales 4–5 unc. longæ. *Spicæ* 2 unc. longæ, lineares, fusce stramineæ, plures basi femineæ. *Glumæ* femineæ, aristellâ inclusâ, utriculis breviores. *Styli* rami 3. *Utriculi* ¼ unc. longi, ellipsoidei trigoni, utrinque

angustati, stipitati, in parte superiore pilosuli; rostrum conico-lineare cum $\frac{1}{2}$–$\frac{2}{3}$ parte utriculi æquilongum.—Species *C. arridenti*, C. B. Clarke affinis.

YUNNAN: Fengcheulin, 9500 feet (*Henry*, 10839!). Herb. Kew.

Naga Hills of N.E. India.

107. **Carex Prescottiana**, *Boott, in Trans. Linn. Soc.* xx. (1846) p. 135, *et Carex*, i. p. 45 partim (*i. e.* excluding tab. 115 and the Hawaian plants); *C. B. Clarke, in Hook. f. Fl. Brit. Ind.* vi. p. 710; *Franch. in Nouv. Arch. Mus.* 3me sér., ix. (1897) pp. 122, 159.

Carex cernua, *Franch. in Nouv. Arch. Mus.* 3me sér., ix. (1897) pp. 117, 159 pro magnâ parte; non *Boott.*

Carex Fargesii, *Franch. in Bull. Soc. Philom. Paris*, 8me sér., vii. (1895) p. 134, *et in Nouv. Arch. Mus.* 3me sér., ix. (1897) pp. 119, 159, t. 2. fig. 1; *Diels, in Engl. Bot. Jahrb.* xxix. (1900) p. 231.

SZECHUEN: Tchenkeoutin, 5000 feet (*Farges*, 761!).

North-east India; Japan.

108. **Carex pruinosa**, *Boott, in Proc. Linn. Soc.* i. (1845) p. 255, *in Ann. Nat. Hist.* xvii. (1846) p. 52, *in Trans. Linn. Soc.* xx. (1846) p. 131, *et Carex*, i. p. 65, t. 174; *Miq. Fl. Ind. Bat.* iii. p. 352; *C. B. Clarke, in Hook. f. Fl. Brit. Ind.* vi. p. 709; *Palibin, Fl. Koreæ*, iii. p. 24.

Carex picta, *Boott, in Mem. Amer. Acad.* vi. (1859) p. 418; *Franch. et Savat. Enum. Pl. Jap.* ii. p. 131; non *Steud.*

Carex pruinosa, var. β. picta, *Boott, Carex*, iv. p. 198; *Franch. in Nouv. Arch. Mus.* 3me sér., ix. (1897) pp. 155, 162; *Diels, in Engl. Bot. Jahrb.* xxix. (1901) p. 231.

Carex dimorpholepis, *Steud. Syn. Pl. Cyp.* p. 214.

Carex Maximowiczii, *Miq. Ann. Mus. Bot. Lugd.-Bat.* ii. (1866) p. 150.

SHANTUNG: Chefoo (*Fauvel*); CHEKIANG: Ningpo Mts. (*Faber*, 64, 1519!); HUPEH: Ichang (*A. Henry*, 3501!), Patung (*E. H. Wilson*, 1652!); YUNNAN: Longki (*Delavay*, 4999, 5162!), Tchenfongchan (*Delavay*, 417!); HONGKONG: Mt. Kellet (*Bodinier*, 1431!); COREA (*Kalinowsky*), Port Chusan (*Wilford*, 937!). Herb. Kew.

North-east Bengal; Java, Japan.

109. **Carex psycrophila**, *Nees, in Wight, Contrib.* (1834) p. 127; *Kunth, Enum. Pl.* ii. p. 463; *Boott, Carex*, i. p. 70, t. 191; *Boeck.*

in Linnæa, xl. (1876) p. 402; *C. B. Clarke, in Hook. f. Fl. Brit. Ind.* vi. p. 732; *Franch. in Bull. Soc. Philom. Paris*, 8me sér., vii. (1895) p. 88, *et in Nouv. Arch. Mus.* 3me sér., ix. (1897) pp. 146, 161; *Diels, in Engl. Bot. Jahrb.* xxix. (1901) p. 231.

Carex celsa, *Boott, Carex*, iii. p. 108, t. 330.

SZECHUEN: Tchenkeoutin (*Farges*!).

Himalaya.

110. **Carex pumila**, *Thunb. Fl. Jap.* (1784) p. 39; *Schkuhr, Riedgr.* ii. p. 82, t. Yy. fig. 112; *Kunth, Enum. Pl.* ii. p. 517; *Boott, Carex*, iv. p. 217; *Benth. Fl. Hongk.* p. 402; *Franch. in Nouv. Arch. Mus.* 3me sér., x. (1898) pp. 89, 99; *Debeaux, Fl. Shanghai*, p. 67; *Palibin, Fl. Koreæ*, iii. p. 21.

Carex littorea, *Labill. Pl. Nov. Holl.* ii. p. 69, t. 219.

Carex Urvillei, *Brongn. in Duperrey, Voy.* p. 157; *Kunth, Enum. Pl.* ii. p. 517.

Carex nutans, var. δ. pumila, *Boeck. in Linnæa*, xli. (1877) p. 298.

SHANTUNG: Chefoo (*Perry*), Taliensuan (*Birnie*!); KIANGSU: Shanghai et Woosung (*Debeaux*); HONGKONG (*C. Wright*, 6, 605!); COREA: Chusan (*Wilford*, 930!); LUCHU ARCHIPELAGO (*C. Wright*, 362!). Herb. Kew.

Creeping in sea-sand, in Japan, Australia, New Zealand, Chile.

111. **Carex remota**, *Linn. Amœn. Acad.* iv. (1788) p. 293, *et Sp. Pl.* ed. 2, p. 1383 partim; *Schkuhr, Riedgr.* i. p. 46, ii. p. 22, t. E. fig. 23; *Kunth, Enum. Pl.* ii. p. 404; *Boott, Carex*, iv. p. 198; *Boeck. in Linnæa*, xxxix. (1875) p. 129; *C. B. Clarke, in Hook. f. Fl. Brit. Ind.* vi. p. 706; *Franch. in Bull. Soc. Philom. Paris*, 8me sér., vii. (1895) p. 84, *et in Nouv. Arch. Mus.* 3me sér., viii. (1896) pp. 235, 241; *Diels, in Engl. Bot. Jahrb.* xxix. (1901) p. 230.

SZECHUEN: S. Wushan (*Henry*, 5722!). Mus. Brit.; Herb. Kew.

Cool parts of the North Hemisphere.

Henry n. 5722 is young, and very possibly should be referred to one of the following varieties.

Var. **β. Rochebruni**, *C. B. Clarke, in Hook. f. Fl. Brit. Ind.* vi. (1894) p. 706, syn. *Franch. et Savat.* excl. Utriculi nervi minus conspicui, faciei planæ nulli; rostrum basi valide marginatum aut anguste alatum.

KIANGSI (*Miss Reid*).

This variety is frequent in the Himalaya, from Kashmir to Khasia. Also occurs in Java.

Var. γ. **reptans**, *Franch. in Nouv. Arch. Mus.* 3me sér., viii. (1896) p. 235; *Diels, in Engl. Bot. Jahrb.* xxix. (1901) p. 230.

SZECHUEN (*Farges*, 910), Mt. Omei (*Faber*, 1148 !). Herb. Kew.

In the examples seen, the rhizome is woody, obliquely descending, about 1 in. preserved; in Farges 910, not seen, Franchet describes the rhizome as "reptans."

112. **Carex repanda**, *C. B. Clarke, in Hook. f. Fl. Brit. Ind.* vi. (1894) p. 720.

Carex Wightiana, *Boott, Carex*, i. p. 11 partim.

? — YUNNAN; Szemao Mts., 5000 feet (*A. Henry*, 9971 A, 11719 !). Herb. Kew.

Khasia, Perak.

Both the specimens of Henry are very young, and possibly represent one of the species nearly allied to *C. repanda.*

113. **Carex rhynchophora**, *Franch. in Bull. Soc. Philom. Paris*, 8me sér., vii. (1895) p. 90, *et in Nouv. Arch. Mus.* 3me sér., x. (1898) pp. 53, 97; *Diels, in Engl. Bot. Jahrb.* xxix. (1901) p. 232.

SZECHUEN: Tchenkeoutin (*Farges*).

Not examined. Next *C. longerostrata*, C. A. Meyer, ex Franchet.

114. **Carex rigida**, *Gooden.! in Trans. Linn. Soc.* ii. (1792) pp. 193–195, t. 22. fig. 10; *Schkuhr, Riedgr.* i. p. 56, ii. p. 25, t. U. fig. 71; *Boeck. in Linnæa*, xl. (1876) p. 414 (excluding var. *trigyna*); *C. B. Clarke, in Hook. f. Fl. Brit. Ind.* vi. p. 711 (excluding *C. orbicularis*, Boott); *Franch. in Bull. Soc. Philom. Paris*, 8me sér., vii. (1895) p. 40, *in Nouv. Arch. Mus.* 3me sér., ix. (1897) pp. 129, 159 (excluding the plants with three style-branches).

Carex saxatilis, *Oeder, Fl. Dan.* t. 159; *Schkuhr, Riedgr.* i. p. 54, ii. p. 25, t. I. fig. 40, t. Tt. fig. 40; *J. Gay, in Ann. Sc. Nat.* 2me sér., xi. (1839) pp. 187, 191.

Carex vulgaris, var. alpina, *Boott, Carex*, iv. p. 167, tt. 568, 570, 572.

SZECHUEN: Tachienlu, 9000–13,500 feet (*Pratt*, 738 !), Tongolo (*Soulié*, 842) ! Mus. Brit.; Herb. Kew.

Very common in the cool part of the North Hemisphere, extending to the Himalaya; but no example from Japan or from North-west America has been seen.

115. **Carex Rouyana**, *Franch. in Bull. Soc. Philom. Paris*, 8me sér., vii. (1894–5) p. 51, *et in Nouv. Arch. Mus.* 3me sér., x. (1898) pp. 67, 98, t. 7. fig. 1.

HUPEH: Patung (*E. H. Wilson*, 1651!).

In Japan, *e Franchet.*

The species is, as Franchet says, near *C. filipes*, Franchet, differing by the short leaves and large peduncled deeply-purple male spike. I identify Wilson's plant with *C. Rouyana* only by comparison with Franchet's picture.

116. **Carex rubrobrunea**, *C. B. Clarke, in Hook. f. Fl. Brit. Ind.* vi. (1894) p. 710, excluding citations.

YUNNAN: Szemao, 4500 feet (*Henry*, 11722!). Herb. Kew.

Frequent in Khasia, North-east India.

117. **Carex rupestris**, *All. Fl. Pedem.* ii. (1785) p. 264, t. 92. fig. 1; *Schkuhr, Riedgr.* ii. p. 36, t. Nnnn. fig. 280; *Kunth, Enum. Pl.* ii. p. 426; *Boott, Carex*, iv. p. 158, t. 516. figg. 1–5; *Boeck. in Linnæa*, xxxix. (1875) p. 34; *Franch. in Nouv. Arch. Mus.* 3me sér., viii. (1896) pp. 205, 209.

Carex petræa, *Schkuhr, Riedgr.* ii. p. 35, t. Kkk. fig. 139.

SHINGKING: Changpeishan (*James*!). Herb. Kew.

Cool parts of the North Hemisphere.

118. **Carex Sampsoni**, *Hance, in Journ. Bot.* vi. (1868) p. 89.

KWANGTUNG?, Kulangsu Island (*Sampson*, hb. *Hance*, 13059!). Mus. Brit.

Next to *C. manca*, Boott, fide Hance. Male spike $\frac{3}{4}$ by $\frac{1}{16}$ in. Female spike rather lax, with 8–12 utricles; peduncle up to $1\frac{1}{4}$ in. Utricles ellipsoid, narrowed into a linear beak, sparingly pubescent.

Appears to have been overlooked by Franchet.

119. **Carex scaposa**, *C. B. Clarke, in Bot. Mag.* cxiii. (1887) t. 6940; *Franch. in Nouv. Arch. Mus.* 3me sér., viii. (1896) pp. 255, 260; *Finet et Franch. in Bull. Soc. Bot. France*, 3me sér., vi. (1899) p. 214; *Diels, in Engl. Bot. Jahrb.* xxix. (1901) p. 231.

FOKIEN: Amoy Interior (*Swinhoe!*), Kualun Mts. (*De la Touche*); YUNNAN: Tchenfongchang (*Delavay*, 410), Longki (*Delavay*, 5160); KWANGTUNG: Lofaushan, 3200 feet (*Ford*, 49!). Mus. Brit.; Herb. Kew.

Tonkin.

120. **Carex sclerocarpa,** *Franch. in Bull. Soc. Philom. Paris*, 8me sér., vii. (1895) p. 91, *et in Nouv. Arch. Mus.* 3me sér., x. (1898) pp. 71, 98; *Diels, in Engl. Bot. Jahrb.* xxix. (1901) p. 232.

YUNNAN: Mts. of Tchenkeoutin (*Farges*).

"Allied to *C. setosa*, Boott."—*Franchet.*

Not examined.

121. **Carex siderosticta,** *Hance, in Journ. Linn. Soc., Bot.* xiii. (1873) p. 89; *Franch. Pl. David.* i. p. 320, *et in Nouv. Arch. Mus.* 3me sér., ix. (1897) p. 195, t. 5. fig. 2, x. (1898) p. 95; cf. *Meinsh. in Act. Hort. Petrop.* xviii. (1900) pp. 300, 308.

Pseudo-Carex plantaginea, *Miq. Ann. Mus. Bot. Lugd.-Bat.* ii. p. 146.

CHIHLI: Peking, Mountain Valleys (*Bodinier*, 97), Jehol (*David*, 1812!); SHINGKING: Korean Gate (*Ross*, 433!); SHANTUNG: Chefoo (*Fauvel!*); HUPEH: Ichang (*A. Henry*, 3758!); NORTH CENTRAL CHINA: Paoki, Chifongsan (*Hugh*, 45!). Mus. Brit.; Herb. Kew.

Japan.

122. **Carex simulans,** *C. B. Clarke*, n. sp.

Hemiscaposa. *Innovationum folia* 18 unc. longa, $\frac{1}{8}$–$\frac{1}{6}$ in. lata, in paginâ inferiore a glandulis capitatis dense inspersa. *Spicæ* 1–1$\frac{1}{4}$ unc. longæ, remotæ, terminalis mascula; glumæ ferrugineæ, carinâ viridi in aristellam excurrente. *Bractea* ima 2 unc. longa, basi vaginans. *Spicæ* femineæ laxæ. *Utriculi* rostro incluso fere $\frac{1}{5}$ unc. longi, late ellipsoidei, trigoni, fusce olivacei, in humeris obscure pilosuli; rostrum cum $\frac{1}{2}$ parte utriculi æquilongum, dentibus 2 lanceolatis. *Nux* æqualis in collum late cylindricum breve apice angustata.

CHEKIANG: Ningpo Mts. (*Faber*, 1522!); SZECHUEN: Hohkiang (*Faber*, 66); HUPEH: Ichang (*A. Henry*, 7892!), Patung (*A. Henry*, 3712!). Herb. Kew.

Resembles generally, and in the utricles, *C. manca*, Boott, which species differs by having an unequal nut (*prava*, Boott) without a beak, the leaves not densely glandular beneath. *C. simulans* is a dusky olive colour, while *C. manca* is yellowish.

123. **Carex sociata,** *Boott, in Mem. Amer. Acad.* n. s. vi. (1859) p. 420, *et Carex*, iv. p. 200 (*Ic. ined. in hb. Kew.* t. 674); *Franch. in Nouv. Arch. Mus.* 3me sér., x. (1898) pp. 59, 97.

FORMOSA (*Swinhoe*! *Oldham*, 595!); LUCHU ARCHIPELAGO (*C. Wright*, 57 ex parte, 77, 361, 366!).

The utricle is distinctly hairy. Franchet says (and he appears to be right) that he had never seen this species, which is near *C. ligata*, Boott, but has a brown much thicker male spike.

124. **Carex Spachiana,** *Boott, Carex*, i. (1858) p. 43, t. 108; *Franch. in Nouv. Arch. Mus.* 3me sér., ix. (1897) pp. 137, 160.

KWANGTUNG: Macao (*Calléry*, 40, 398!). Herb. Kew.

In this species the style is 3-fid, the terminal spike female at top; Franchet, to whom (as to several modern caricologists) such characters are of the very lowest import, compares *C. Spachiana* with the Bruneæ, or suggests it may be nearer his *C. Forficula*. *C. Spachiana* appears to me as remote from *C. brunea* and from *C. Forficula* as is any species in the genus.

125. **Carex stellulata,** *Gooden. in Trans. Linn. Soc.* ii. (1798) p. 144; *Schkuhr, Riedgr.* i. p. 45, ii. p. 19, t. C. fig. 14; *Kunth, Enum. Pl.* ii. p. 399; *Franch. et Savat. Enum. Pl. Jap.* ii. p. 126.

Carex echinata, *Boeck. in Linnæa*, xxxix. (1875) p. 124; *Franch. in Nouv. Arch. Mus.* 3me sér., viii. (1896) pp. 232, 240; non *Murray*.

YUNNAN: Outchay (*Delavay*, 409!).

Cool parts of the North Hemisphere; plentiful in the Himalaya and Japan. Also in Australia, New Zealand.

Murray's *C. echinata*, the "type" described by him, is in Mus. Brit.; and is *C. divulsa*, Gooden.

126. **Carex stenantha,** *Franch. et Savat. Enum. Pl. Jap.* ii. (1879) pp. 146, 573; *Franch. in Nouv. Arch. Mus.* 3me sér., x. (1898) p. 50, t. 3. fig. 2.

Carex stenolepis, *Franch. in Nouv. Arch. Mus.* 3me sér., x. (1898) p. 96; non *Torrey*.

SHINGKING: Chiensan (*Ross*, 493, 585!), Moukden (*James*!). Herb. Kew.

Frequent in Japan.

127. **Carex stenophylla,** *Wahlenb. in Vet.-Akad. Stockh. Handl.* xxiv. (1803) p. 142; *Bunge, Pl. Chin. Bor.* p. 68; *Kunth, Enum. Pl.* ii. p. 374; *Maxim. Prim. Fl. Amur.* p. 304, *et in Bull. Soc. Mosc.* liv. (1879) p. 66; *Boott, Carex,* iv. p. 200; *Boeck. in Linnæa,* xxxix. (1875) p. 50; *Baker et S. Moore, in Journ. Linn. Soc., Bot.* xvii. (1880) p. 388; *Franch. Pl. David.* i. pp. 318, 319, *et in Nouv. Arch. Mus.* 3me sér., viii. (1896) pp. 220, 240; *C. B. Clarke, in Hook. f. Fl. Brit. Ind.* vi. p. 700.

CHIHLI: Peking (*Bushell, Bretschneider,* 866! *Williams,* 11447! *David,* 1786, 2373, *Bodinier,* 95, 96); SHINGKING: Ngaiyang (*Ross,* 230!); SHANTUNG: Chefoo (*Hancock,* 31! *Fauvel*); NORTH CENTRAL CHINA: Kisansien (*Hugh*!). Mus. Brit.; Herb. Kew.

Cool parts of the North Hemisphere.

128. **Carex stipitinux,** *Franch. in Bull. Soc. Philom. Paris,* 8me sér., vii. (1895) p. 31, *et in Nouv. Arch. Mus.* 3me sér., viii. (1896) pp. 246, 260, char. emend.; *Diels, in Engl. Bot. Jahrb.* xxix. (1901) p. 230.

HUPEH (*A. Henry,* 5971, 6610!), Patung (*A. Henry,* 4852!), Chienshih (*A. Henry,* 5838!); SZECHUEN: Tchenkeoutin (*Farges*!). Herb. Kew.

This species is closely allied to *C. brunnea,* Thunb., as stated by Franchet in Bull. Soc. Philom., where it is placed at the head of the section "spiculæ apice masculæ." The terminal spike is male at top, usually for the greater part of its length, and frequently male altogether.

But, in Henry 5971, which Franchet worked from in Nouv. Arch. Mus., there are about $\frac{1}{6}$ of the female spikes in which the lower female flowers have not perfected utricles (as not infrequently in this section); Franchet has taken these as male flowers apparently (*i. e.* I find no males) and has created a new section for this species only, having "spiculæ inferne masculæ, vel interrupte masculæ et femineæ," the character of the section Remotæ, from which *C. stipitinux* is alien.

129. **Carex sutchuensis,** *Franch. in Bull. Soc. Philom. Paris,* 8me sér., vii. (1894) p. 45.

Carex setchuensis, *Franch. in Nouv. Arch. Mus.* 3me sér., ix. (1897) p. 180, x. (1898) p. 94; *Diels, in Engl. Bot. Jahrb.* xxix. (1901) p. 232.

SZECHUEN: Mt. Omei (*Faber*, 1146!), Tchenkeoutin (*Farges*). Not examined.

130. **Carex taliensis**, *Franch. in Bull. Soc. Philom. Paris*, 8me sér., vii. (1895) p. 34, *et in Nouv. Arch. Mus.* 3me sér., ix. (1897) pp. 139, 160, t. 2. fig. 2; *Diels, in Engl. Bot. Jahrb.* xxix. (1901) p. 231.

Carex stachydesma, *Franch. in Bull. Soc. Philom. Paris*, 8me sér., vii. (1895) p. 85, *et in Nouv. Arch. Mus.* 3me sér., ix. (1897) pp. 118, 159; *Diels, in Engl. Jahrb.* xxix. (1900) p. 231.

Carex gracilirostris, *Franch. in Nouv. Arch. Mus.* 3me sér., ix. (1897) p. 138; *Diels, in Engl. Bot. Jahrb.* xxix. (1901) p. 231.

Carex angusticruris, *Franch. in Nouv. Arch. Mus.* 3me sér., ix. (1897) p. 160.

HUPEH (*A. Henry*, 5431!), Patung (*A. Henry*, 1725!); YUNNAN: Tali (*Delavay*), Longki (*Delavay*), Tchenfongchan (*Delavay*, 412!), Szemao Mts. (*Henry*, 11722!); NORTH CENTRAL CHINA: Laoysan (*Hugh*!). Mus. Brit.; Herb. Kew.

131. **Carex tapintzensis**, *Franch. in Bull. Soc. Philom. Paris*, 8me sér., vii. (1894) p. 44, *et in Nouv. Arch. Mus.* 3me sér., ix. (1897) p. 164, x. (1898) p. 93.

YUNNAN: Tapintze (*Delavay*, 1740, 4532), Yengtzehay (*Delavay*, 3973).

Not examined.

132. **Carex tenebrosa**, *Boott, Carex*, ii. (1860) p. 88, t. 256; *Benth. Fl. Hongk.* p. 402; *Franch. in Nouv. Arch. Mus.* 3me sér., x. (1898) pp. 51, 96.

HONGKONG (*Harland*, 691! *hb. Kew.* 547!), Happy Valley woods (*Wilford*, 264!), Pic Victoria (*Bodinier*, 515). Herb. Kew.

The whole plant is olive-black, at least in the dried state.

133. **Carex tenuissima**, *Boott, in Proc. Linn. Soc.* i. (1845) p. 288.

Carex panicea, *hb. Bunge.*

NORTH CHINA: *in herb. Fielding, e Boott.*

This species is not in herb. Boott, nor is the name in the Index to Boott's *Carex*; but Boott says it was "*C. paniceæ*, L., affinis."

This could hardly have been the *C. tenuissima*, Franch. et

Savat. Enum. Pl. Jap. ii. p. 147, Franch. in Nouv. Arch. Mus. 3me sér., x. (1898) pp. 63, 97, which resembled (except as to the glabrous utricle) *C. capilliformis*, Franch. Of this species Franchet has named an example in herb. Kew, which has minute lax spikes of 2–5 utricles. It is hardly conceivable that Bunge should have marked this " *C. panicea*, L." and that Boott should have described it as " *C. paniceæ*, L., affinis."

134. **Carex thibetica,** *Franch. Pl. David.* ii. (1888) p. 141, *et in Nouv. Arch. Mus.* 3me sér., ix. (1897) p. 177, x. (1898) p. 94; *Diels, in Engl. Bot. Jahrb.* xxix. (1901) p. 232.

Carex dichroa, *Franch. in Bull. Soc. Philom. Paris,* 8me sér., vii. (1895) p. 86.

Carex bella, *C. B. Clarke,* ex *Franchet, in Nouv. Arch. Mus.* 3me sér., ix. (1897) p. 177.

Hupeh (*A. Henry,* 6332!), Nanto Mts. (*A. Henry,* 3833!), Changjang (*A. Henry,* 5245!), Patung (*E. H. Wilson,* 1636!); Szechuen: Moupin (*David*), Tchenkeoutin (*Farges,* 910 *c*!); Yunnan: Outchay (*Delavay*!). Mus. Brit.; Herb. Kew.

135. **Carex Thomsoni,** *Boott, Carex,* i. (1858) p. 1, t. 1; *Boeck. in Linnæa,* xxxix. (1875) p. 92; *C. B. Clarke, in Hook. f. Fl. Brit. Ind.* vi. p. 703.

Carex Thompsoni, *Franch. in Bull. Soc. Philom. Paris,* 8me sér., vii. (1895) p. 29, *et in Nouv. Arch. Mus.* 3me sér., viii. (1896) pp. 212, 239; *Diels, in Engl. Bot. Jahrb.* xxix. (1901) p. 229.

Hupeh: Ichang (*A. Henry,* 3392!); Szechuen: Souifou (*Delavay,* 141). Herb. Kew.

Bengal to Tonkin.

136. **Carex Tonnerrei,** *C. B. Clarke,* n. sp.

Culmi numerosi, dense cæspitosi, pedales. *Folia* cum culmis æquilonga, $\frac{1}{12}$ unc. lata. *Panicula* 4 unc. longa, $\frac{1}{2}$ unc. lata. *Gluma* feminea utriculo brevior. *Styli* rami 2, cum utriculo vix æquilongi. *Utriculi* $\frac{1}{12}$ unc. longi, conspicue stipitati, glabri, leves, vel in rostri apice minute sparsim scabri.

Szechuen: Mount Omei (*Faber,* 1140!). Herb. Kew.

This species is close to *C. gentilis,* Franchet; from which it differs in its densely tufted stems, narrow leaves, and its stalked smooth glabrous utricle.

137. **Carex transversa,** *Boott, in Perry, Exped.* ii. (1857) p. 324, *et Carex,* iv. p. 202, *Ic. ined. in hb. Kew.* t. 681; *Franch.*

et Savat. Enum. Pl. Jap. ii. p. 149; *Franch. in Nouv. Arch. Mus.* 3me sér., x. (1898) pp. 48, 96, t. 3. fig. 1.

KIANGSU: Shanghai (*Forbes*, *Faber*, 441 *b*!); CHEKIANG: Ningpo Mts. (*Faber*, 1520!), Punto Isle (*A. Henry*, 24!). Herb. Kew.

Japan.

C. transversa resembles *C. rigens*, i. e. *C. Brownii*, Tuckerman, in the leaden colour of the utricles contrasted against the scarious-white glumes, but has the beak of the utricle much longer.

138. **Carex Trappistarum,** *Franch. in Journ. de Bot.* iv. (1890) p. 320, *et in Nouv. Arch. Mus.* 3me sér., ix. (1897) pp. 133, 160.

CHIHLI: Peking (*Bodinier*, 94); KIANGSI: Kewkiang (*Shearer*!). Herb. Kew.

Japan.

Shearer's plant is young, and was named *C. heterolepis*, Bunge, in herb. Kew. Franchet has omitted altogether *C. heterolepis*, Bunge. The two, *C. heterolepis*, Bunge, and *C. Trappistarum*, Franch., are very close together, and may perhaps be united in one when more material has come to hand.

139. **Carex tristachya,** *Thunb. Fl. Jap.* (1784) p. 38; *Schkuhr, Riedgr.* ii. p. 48, t. Ww. fig. 109; *Kunth, Enum. Pl.* ii. p. 474; *Boeck. in Linnæa*, xli. (1877) p. 196; *Boott, Carex*, iv. p. 131, t. 424; *Franch. et Savat. Enum. Pl. Jap.* ii. p. 135; *Franch. in Nouv. Arch. Mus.* 3me sér., ix. (1897) p. 162, x. (1898) p. 93; *Diels, in Engl. Bot. Jahrb.* xxix. (1901) p. 231.

Carex monadelpha, *Boott, in Perry, Exped.* ii. (1857) p. 323.

Carex pocilliformis, *Boott, Carex*, iv. p. 175, t. 593; *Boeck. in Linnæa*, xli. (1877) p. 195; *Franch. in Nouv. Arch. Mus.* 3me sér., ix. (1897) p. 163, x. (1898) p. 93.

ANWHEI: Nanking (*Faber*, 240!); CHEKIANG: Ningpo Mts. (*Faber*, 65!); HUPEH: Ichang (*A. Henry*, 7898!), Antelope Glen (*A. Henry*, 7901!); KWANGTUNG: Whampoa (*Hance*, 7198!), Canton (*Sampson*, 1150!); COREA: Tsusima (*Wilford*, 763!). Mus. Brit.; Herb. Kew.

Frequent in Japan.

140. **Carex truncatigluma,** *C. B. Clarke*, n. sp.

Hemiscaposa. *Folia* basalia 18 unc. longa, $\frac{1}{3}$ unc. et ultra lata, glabra. *Culmi* florentes 6–9 unc. longi, efoliati; bracteæ vix unciales, setaceæ. *Spicæ* 6, parum distantes, terminalis

sessilis omnino mascula, $\frac{1}{2}$ unc. longa, $\frac{1}{16}$ unc. lata, straminea. *Spica* feminea $1\frac{1}{2}$ unc. longa, $\frac{1}{8}$ unc. lata, fusce lutescens; glumæ femineæ utriculis multo breviores, late obovatæ, obtusæ, stramineæ, sublucidæ. *Stylus* 3-fidus. *Utriculus* $\frac{1}{8}$ unc. longus, lanceolatus, trigonus, utrinque angustatus vix rostratus, multistriatus undique tenuiter microscopice pilosus, apice vix 2-dentatus. *Nux* anguste lanceolata, trigona, apice late cylindrica, utriculo parum angustior.

CHEKIANG: Ningpo Mts. (*Faber*, 1541!). Herb. Kew.

141. **Carex tsangensis**, *Franch. in Bull. Soc. Philom. Paris*, 8me sér., vii. (1894) p. 44, *et in Nouv. Arch. Mus.* 3me sér., ix. (1897) p. 181, x. (1898) p. 94.

YUNNAN: Mt. Tsangchan, alt. 7600 feet (*Delavay*, 2615). Not examined.

142. **Carex tumida**, *Boott, Carex*, i. (1858) p. 66, t. 181; *Boeck. in Linnæa*, xli. (1877) p. 243; *C. B. Clarke, in Hook. f. Fl. Brit. Ind.* vi. p. 741.

YUNNAN: Mengtze, 5500 feet (*A. Henry*, 10833!). Herb. Kew.

Himalaya and Khasia.

143. **Carex unisexualis**, *C. B. Clarke*, n. sp.

Culmi omnino unisexuales. *Inflorescentia* feminea 3 unc. longa, $\frac{1}{2}$ unc. lata, 30-stachya, densa; inflorescentia mascula multo angustior; bractea ima brevis. *Utriculi* $\frac{1}{10}$ unc. longi, a glandulis nigro-rubris inspersi, in margine superiore hispidi; rostrum breve lineari-oblongum; ceteroquin ut *C. fluviatilis*, Boott, *Carex*, iv. t. 582.

Carex fluviatilis, *C. B. Clarke, in Hook. f. Fl. Brit. Ind.* vi. p. 703, quoad plantas chinenses citatas; *Franch. in Nouv. Arch. Mus.* 3me sér., viii. (1896) pp. 213, 239; *Diels, in Engl. Bot. Jahrb.* xxix. (1901) p. 229.

KIANGSU: Shanghai (*Maingay*, 361!); KIANGSI: Kiukiang (*Shearer*!), Kiukiang Mts. (*Faber*, 1186!); HUPEH: Ichang (*Henry*, 594!). Herb. Kew.

Endemic.

144. **Carex ustulata**, *Wahlenb. in Vet.-Akad. Stockh. Handl.* xxiv. (1803) p. 156; *Kunth, Enum. Pl.* ii. p. 462; *Boott, Carex*, i. p. 70, t. 193. figg. 1, 2, et t. 194. fig. 1; *Boeck. in Linnæa*, xli.

(1877) p. 260; *C. B. Clarke, in Hook. f. Fl. Brit. Ind.* vi. p. 734; *Franch. in Bull. Soc. Philom. Paris*, 8me sér., vii. (1895) p. 38, *et in Nouv. Arch. Mus.* 3me sér., ix. (1897) pp. 155, 162.

Carex atrofusca, *Schkuhr, Riedgr.* i. (1801) p. 106, t. Y. fig. 82.

Carex Prattii, *Franch. in Bull. Soc. Philom. Paris*, 8me sér., vii. (1895) p. 32.

Carex Moorcroftii, *Franch. in Nouv. Arch. Mus.* 3me sér., ix. (1897) pp. 150, 161; non *Boott.*

SZECHUEN: Tachienlu (*Pratt*, 556! *Soulié*); YUNNAN: Mts. Likiang, 11,000 feet (*Delavay*, 2472!). Mus. Brit.

Cold parts of the North Hemisphere, down to the Himalaya. The Kew example of Pratt 556 differs from Pratt 556 at the Mus. Brit.

145. **Carex vaginata,** *Tausch. in Flora*, iv. (1821) p. 557; *Kunth, Enum. Pl.* ii. p. 451; *Kunze, Suppl. Schkuhr, Riedgr.* pp. 60–64, t. 15; *Boott, Carex*, iv. p. 148, t. 478; *Boeck. in Linnæa*, xli. (1877) p. 156; *Franch. in Nouv. Arch. Mus.* 3me sér., ix. (1897) p. 199, x. (1898) p. 95.

Carex Mielichhoferi, *Smith, Engl. Fl.* iv. p. 98, *et in Sowerby, Engl. Bot.* t. 2293; non *Schkuhr.*

Carex phæostachya, *Smith, Engl. Fl.* iv. p. 99, *et in Sowerby, Engl. Bot.* t. 2731.

Carex scotica, *Spreng. Syst.* iii. p. 819.

Carex falcata, *Turcz. in Bull. Soc. Mosc.* (1838) p. 104, xxviii. (1855) pars I. p. 341; *Maxim. Prim. Fl. Amur.* p. 311; *Baker et S. Moore, in Journ. Linn. Soc., Bot.* xvii. (1880) p. 389; *Korshinsky, in Act. Hort. Petrop.* xii. (1892) p. 409.

SHINGKING: Kwandien Mts. (*Ross*!). Herb. Kew.

A European species extending to Kamschatka.

146. **Carex vesicaria,** *Linn. Sp. Pl.* ed. 1, p. 979, ed. 2, p. 1388 partim; *Schkuhr, Riedgr.* i. p. 124, ii. p. 85, t. Ss. fig. 106; *Kunth, Enum. Pl.* ii. p. 494; *Bunge, Enum. Pl. Chin. Bor.* p. 69; *Ledeb. Fl. Ross.* iv. p. 317; *Boott, in Hook. London Journ.* v. (1846) p. 69 (exemplis Americanis excl.), *et Carex*, iv. p. 162 pro minore parte, t. 536; *Boeck. in Linnæa*, xli. (1877) p. 319 partim.

NORTH CHINA: Ssijuissy (*Bunge*).

Europe, scattered also in North Asia.

The plant of Bunge, not seen, was doubtless *C. vesicaria* as understood by Boott and Boeckeler; but all the "*C. vesicaria*" of Japan and East Siberia (also of the Himalaya) is now referred to subspecies of "*vesicaria*" identic with (or allied to) American forms.

147. **Carex villosa**, *Boott, Carex,* iv. (1867) p. 203, *Ic. ined. in hb. Kew.* 683; *Franch. et Savat. Enum. Pl. Jap.* ii. pp. 142, 567 partim; *Franch. in Nouv. Arch. Mus.* 3me sér., x. (1898) pp. 44, 96; *Palibin, Fl. Koreæ,* iii. p. 25.

COREA: Soul (*Kalinowsky*).

Frequent in Japan.

This species has the utricle quite glabrous; the *C. villosa* of Boott, in Perry, Exped. ii. (1857) p. 327, with hairy utricles, was perhaps, wholly or partly *C. Duvaliana*, Franch. et Savat.

148. **Carex Wallichiana,** *Prescott, ex Nees, in Wight, Contrib.* (1834) p. 129; *Kunth, Enum. Pl.* ii. p. 483; *Boott, Carex,* i. p. 16, t. 18; *Boeck. in Linnæa,* xli. (1877) p. 310 partim; *C. B. Clarke, in Hook. f. Fl. Brit. Ind.* vi. p. 747; *Franch. in Nouv. Arch. Mus.* 3me sér., x. (1898) pp. 87, 99.

Carex Fedia, *Nees, in Wight, Contrib.* p. 129; *Kunth, Enum. Pl.* ii. p. 483.

Carex hirta, *Boiss. Fl. Orient.* v. p. 431; (var.) *Boeck. in Journ. Linn. Soc., Bot.* xviii. (1881) p. 105; non *Linn.*

YUNNAN: Mosoyu (*Delavay*, 796!), Tapintze (*Delavay*, 1744!), Kiangyu (*Delavay*, 4382!).

Cabul to Tonkin; frequent in North India.

149. **Carex Wilfordii,** *C. B. Clarke*, n. sp.

Culmi 1–2-pedales, subrobusti. *Folia* inflorescentiam sæpe superantia, $\frac{1}{3}$ unc. lata. *Spicæ* 3–4, distantes, usque ad 4 unc. longæ, terminalis mascula. *Utriculi* rostro brevi incluso $\frac{1}{8}$ unc. longi, fusce virides, obovoidei, 10–12-striati. *Nux* obovoidea, apice obtusius pyramidata, nigrobrunea, erostrata.

Carex wahuensis, *Boott, Carex,* iii. p. 111 partim, tt. 352, 353; *Franch. in Nouv. Arch. Mus.* 3me sér., x. (1898) p. 52 partim (var. 3, p. 53) *Palibin, Fl. Koreæ,* iii. p. 26 partim; non *C. A. Meyer.*

Carex Bongardi, var. β. robusta, *Franch. et Savat. Enum. Pl. Jap.* ii. pp. 134, 561, saltem pro magnâ parte.

CHEKIANG: Shrub Island (*A. Henry*, 47!); COREA: Port Hamilton (*Wilford*, 703, 707!). Herb. Kew.

Japan.

This forms the main part of *C. wahuensis*, Boott (and of Boeck. in Linnæa, xli. (1877) p. 279). The type of *C. wahuensis*, C. A. Meyer (Cyp. Novæ, t. 10), is here, and agrees with t. 10; it is a slender Sandwich Island plant with narrow leaves; the utricle has a linear beak ¾ the length of its body; it is in general aspect as in the utricle very distinct from Wilford's 703, 707.

150. **Carex yunnanensis,** *Franch. in Bull. Soc. Philom. Paris*, 8me sér., vii. (1895) p. 31, *et in Nouv. Arch. Mus.* 3me sér., ix. (1897) pp. 116, 158.

YUNNAN: Tapintze (*Delavay*), Mosoyn (*Delavay*, 4788!).

Diagnosed as having a bifid style; but it is always 3-fid.

159. GRAMINEÆ.

(By A. B. RENDLE, M.A., D.Sc., F.L.S.)

Tribe PANICEÆ.

1. **Paspalum conjugatum,** *Berg, in Act. Helvet.* vii. (1772) p. 129, t. 8; *Steud. Syn. Gram.* p. 21; *Hook. f. Fl. Brit. Ind.* vii. p. 11.

HONGKONG: Mt. Gough (*Ford*, 594!). Mus. Brit.; Herb. Kew.

Widely distributed in the tropics, especially of the New World.

2. **Paspalum distichum,** *Linn. Amœn. Acad.* v. p. 391; *Steud. Syn. Gram.* p. 29; *Hook. f. Fl. Brit. Ind.* vii. p. 12; *Hack. in Bull. Herb. Boiss.* vii. (1899) p. 721.

Paspalum vaginatum, *Sw. Prodr. Veg. Ind. Occ.* p. 21.

Paspalum sp., *A. Henry, in Trans. Asiat. Soc. Jap.* xxiv. *Suppl.* (1896) p. 106.

FORMOSA (*Swinhoe*, in herb. *Hance*, 4972 in part!), Takow lagoon growing in a few inches of salt-water (*A. Henry*, 1036!), wet places (*A. Henry*, 1062!), in water (*A. Henry*, 1900!); KWANGTUNG: Pakshá in the extreme south of the province (*Hance*, 4972 in part!); LUCHU ARCHIPELAGO: Okinawa (*Tashiro*, fide *Hackel*). Mus. Brit.; Herb. Kew.

Widely distributed throughout the tropics.

3. **Paspalum scrobiculatum**, *Linn. Mant.* p. 29; *Steud. Syn. Gram.* p. 21; *Benth. Fl. Hongk.* p. 408; *Nees, in Hook. & Arn. Bot. Beechey's Voy.* p. 231; *Pilger, in Engl. Bot. Jahrb.* xxix. (1900) p. 223; *Hack. in Bull. Herb. Boiss.* vii. (1899) pp. 721, 723; *Hook. f. Fl. Brit. Ind.* vii. p. 10.

Paspalum dissectum, *Linn. Sp. Pl.* ed. 2, p. 81, in part; *Thunb. Fl. Jap.* p. 45.

Paspalum Thunbergii, *Kunth*, ex *Steud. Syn. Gram.* p. 28; *Pilger, in Engl. Bot. Jahrb.* l. c.; *Franch. et Savat. Enum. Pl. Jap.* ii. p. 159; *Hack. in Bull. Herb. Boiss.* vii. (1899) p. 643.

Paspalum sp., *A. Henry, in Trans. Asiat. Soc. Jap.* xxiv. *Suppl.* (1896) p. 106.

KIANGSU: Kianang (*Staunton* !); FORMOSA: Takow (*A. Henry*, 736, 1164 !); HUPEH (*A. Henry*, 3986 A !); HONGKONG (*Hance*, 1111 !), roadside near Pokfoolum and West Point (*Lamont* !); LUCHU ARCHIPELAGO: Okinawa (*Tashiro*, fide *Hackel*). Mus. Brit.; Herb. Kew.

Japan.

Widely distributed in the warmer parts of the earth.

1. **Eriochloa polystachya**, *H. B. & K. Nov. Gen. et Sp.* i. p. 95, t. 31.

Eriochloa annulata, *Kunth, Rév. Gram.* i. p. 30; *Benth. Fl. Hongk.* p. 409; *Franchet, in Mém. Soc. Sci. Nat. Cherbourg*, xxiv. (1884) p. 267.

Helopus annulatus, *Nees, Agrost. Bras.* p. 17, *et in Hook. & Arn. Bot. Beechey's Voy.* p. 232.

Paspalus annulatus, *Fluegge, Monogr.* p. 133.

FORMOSA: Takow (*A. Henry*, 1024, 1108 !); KWANGTUNG: Macao (*Vachell* !); HONGKONG (*Hance*, 5200 !). Mus. Brit.; Herb. Kew.

Tropics of Old World and Brazil.

2. **Eriochloa villosa**, *Kunth, Rév. Gram.* i. p. 203, t. 13; *Debeaux, Fl. Shanghai*, p. 62, *et Fl. Tchéfou*, p. 155; *Franchet, Pl. David.* i. p. 322; *Hack. in Engl. Bot. Jahrb.* vi. (1884) p. 49; *Pilger, in Engl. Bot. Jahrb.* xxix. (1900) p. 223; *Palibin, in Act. Hort. Petrop.* xix. (1901) p. 126; *Franch. et Savat. Enum. Pl. Jap.* ii. p. 164; *Hack. in Bull. Herb. Boiss.* vii. (1899) p. 643, et sér. 2, iii. (1903) p. 501.

Paspalum villosum, *Thunb. Fl. Jap.* p. 45, t. 8; *Franchet, in Mém.*

Soc. Sci. Nat. Cherbourg, xxiv. (1884) p. 267; *Maxim. Prim. Fl. Amur.* p. 327.

CHIHLI: Jehol (*David*, 2207!), Peking (*Williams*, in herb. *Hance*, 13380!), Talienwan (*Birnie*!); KIANGSU: Shanghai (*Maingay*, 758!); CHEKIANG: Ningpo Mts. (*Faber*, 285!); KIANGSI: Kiukiang (*Reid*!); HUPEH (*A. Henry*, 677, 4787!), Patung (*Wilson*, 1434!). Mus. Brit.; Herb. Kew.

Japan.

1. **Isachne albens**, *Trin. Sp. Gram. Ic.* t. 85; *Kunth, Enum.* i. p. 137; *Hook. f. Fl. Brit. Ind.* vii. p. 22.

Panicum albens, *Steud. Syn. Gram.* p. 96.

SZECHUEN (*Faber*, 1170!); YUNNAN: Mountain forests, 5000 to 5500 feet, Mengtze (*A. Henry*, 9379 A, 9379 B!). Mus. Brit.; Herb. Kew.

North India, Malaya.

2. **Isachne altissima**, *Debeaux, Fl. Shanghai*, p. 70.

KIANGSU: Shanghai (*Debeaux*).

I have seen no specimen. Is it a large form of *I. australis*?

3. **Isachne australis**, *R. Br. Prodr.* p. 196; *Kunth, Enum.* i. p. 136; *Benth. Fl. Hongk.* p. 414; *Debeaux, Fl. Shanghai*, p. 70; *Palibin, in Act. Hort. Petrop.* xix. (1901) p. 26; *Pilger, in Engl. Bot. Jahrb.* xxix. (1900) p. 223; *Franch. et Savat. Enum. Pl. Jap.* ii. p. 164; *Hack. in Engl. Bot. Jahrb.* vi. (1884) p. 50, *et in Bull. Herb. Boiss.* vii. (1899) p. 643, et sér. 2, iii. (1903) p. 501; *Hook. f. Fl. Brit. Ind.* vii. p. 24.

? Isachne muricata, *Nees, in Hook. & Arn. Bot. Beechey's Voy.* p. 236.

Panicum patens, *Osbeck, Resa*, p. 215, non *Linn.* (according to original specimen in Herb. Mus. Brit.).

CHINA (*Osbeck*!), East Coast (*Home*!); SHANTUNG: Chefoo (*Forbes*!); KIANGSU: Shanghai (*Maingay*, 565, 567, 695!); FOKIEN: Amoy (*Hance*, 1398 in part!); FORMOSA: Apes' Hill, Takow (*Playfair*, 36! *A. Henry*, 1076, 1920!), Tamsui (*Oldham*, 604!); HUPEH: Ichang (*A. Henry*, 244, 3649, 3520!); SHENSI (?): Mt. Laoysan (*Hugh*!); SZECHUEN: Mt. Uomisan, Tcentosen (*Hugh*!); KWANGTUNG: Canton (*Hance*, 1186, 1398 in part! *Sampson*, 291!); HONGKONG (*Forbes*! *Lamont*! *Seemann*, 658! *Wright*!); COREA (*Wilford*, 925!). Mus. Brit.; Herb. Kew.

Japan, India, Malaya, Australasia.

The small forms of this species, for example the Takow specimens from Playfair and Henry, approach *I. miliacea*, Roth.

4. **Isachne debilis**, *Rendle*, n. sp.

Herba parva debilis, caule tenui ramosa repente cum nodis radicantibus, ramis sub apice florenti ascendentibus. *Foliorum* vaginæ quam internodia breviores, compressæ, striatæ, pilosæ, præcipue in nodis marginibusque; ligula pilosa; lamina membranacea, lanceolata, acuta, sparse pilosa, venis inconspicuis, 5–9-lineas longa, 1½–2 lin. lata. *Panicula* laxe pauciflora ramis filiformibus, spiculis ovalibus, ⅔ lin. longis. *Glumæ* steriles virides, membranaceæ, ovales, cum marginibus incurvis et apice obtuso, 7-nerves, dorso hirsutulæ, superior quam inferior paullo minor; fertiles quam steriles breviores, dense et breviter pilosæ, suborbiculares, valde concavæ, cum marginibus inflexis paleam in dorso pilosam amplectantibus, nervis inconspicuis, inferior florem ☿, superior paullo minor, florem ♀ fovens.

FORMOSA: Tamsui (*Oldham*, 605 !). Mus. Brit.; Herb. Kew.

Nearly allied to *I. miliacea*, Roth, but distinguished by the two very similar hairy fertile glumes.

5. **Isachne firmula**, *Büse, in Miq. Pl. Junghuhn.* p. 379.

Isachne rigida, *Nees*, ex *Steud. Syn. Gram.* p. 95; *Hook. f. Fl. Brit. Ind.* vii. p. 24.

Isachne Myosotis, *Benth. Fl. Hongk.* p. 415, non *Nees.*

Panicum Rhignon, *Steud. l. c.*

HONGKONG (*Wilford*! *Wright*!). Herb. Kew.

India, Malaya, Australia.

I think, judging from the description, that *I. firmula*, Büse, is identical with *I. rigida*, Nees.

Var. **nudiglumis**, *Hack. in Bull. Herb. Boiss.* vii. (1899) p. 721.

LUCHU ARCHIPELAGO: Mount Yonahadake (*Tashiro*, fide *Hackel*).

Specimen not seen.

1. **Digitaria barbata**, *Willd. Enum. Hort. Berol.* p. 91.

Panicum barbatum, *Kunth, Rév. Gram.* i. p. 33; *Benth. Fl. Hongk.* p. 410.

Panicum heteranthum, *Nees, in Nov. Act. Nat. Cur.* xix. *Suppl.* 1 (1843) p. 174; *Hack. in Bull. Herb. Boiss.* vii. (1899) p. 723.

Paspalum heteranthum, *Hook. f. Fl. Brit. Ind.* vii. p. 16.

FOKIEN: Amoy (*Hance*, 1379 in part!); FORMOSA: Takow spit (*A. Henry*, 1073!); KWANGTUNG: Pakhoi (*Playfair*, 143!); HONGKONG (*Hance*, 1379 in part!), Happy Valley (*Wright*!); HAINAN (*A. Henry*, 7972!). Mus. Brit.; Herb. Kew.

Malaya.

2. **Digitaria Henryi**, *Rendle*, n. sp.

Herba, ut apparet, annua; culmi tenues, e basi decumbente et radicante erecti, subpedales, vix $\frac{1}{3}$ lin. diametro excedentes, ramosi. *Foliorum* vaginæ glabræ, inferiores laxæ, latæ, suprema cylindrica; ligula scariosa, 1 lin. longa, e vaginæ lateribus continuata; lamina flaccida, anguste lineari-lanceolata, acuta, plana, glabra, marginata, 5-nervis, circa 5 poll. longa, et $2\frac{1}{2}$ lin. lata. *Spicæ* circa 5, laxiusculæ, ad $2\frac{1}{2}$ poll. longæ, in axe communi $1\frac{1}{2}$ poll. longo ordinatæ, suberectæ; rhachis communis tenuis, haud alata; spiculæ lanceolatæ, acutæ, virides, dorso et margine pilosæ, $1\frac{1}{2}$ lin. longæ. *Gluma* i. deltoidea, minuta, enervis; gl. ii. circa dimidiam gl. iii. æquans, vel paullo superans, obtuse lanceolata, 3-nervis, nervus medianus conspicuus, latera et margines longe pilosæ; gl. iii. 7-nervis, nervi laterales a mediano remoti, inter nervos laterales et marginibus pilosa; gl. fertilis quam iii. paullo brevior, cum margine involuta lanceolata et breviter acuminata, 5-nervis, nervi laterales a mediano remoti, glabra.

FORMOSA: Apes' Hill, Takow (*A. Henry*, 1031!). Mus. Brit.; Herb. Kew.

The character of the spikelet closely recalls that of *Digitaria eriantha*, Steud., but the plant differs in habit, being apparently an annual, with slender delicate culms and flaccid leaves. The arrangement of the spikes is less digitate than in *D. eriantha.*

3. **Digitaria formosana**, *Rendle*, n. sp.

Herba minor annua; culmi graciles, cæspitosi, suberecti, plurinodi, 6–14 poll. alti. *Foliorum* vaginæ, ultima excepta, subbreves, omnes glabræ; ligula scariosa, obtusa, 1 lin. longa; lamina lineari-attenuata, basi sparsius et longe pilosa, margine crispulata, $1\frac{1}{4}$–$2\frac{1}{2}$ poll. longa. *Spicæ* binæ vel ternæ, digitatæ, densiusculæ, $1\frac{1}{4}$–$2\frac{1}{2}$ poll. longæ, rhachis anguste alata; spiculæ ovali-lanceolatæ, acutæ, $1\frac{3}{4}$ lin. longæ; cujusve paris alter subsessilis, alter pedicellata. *Gluma* i. punctiformis; gl. ii. $\frac{2}{3}$ longit. gl. iii., trinervis, margine dense pilosa, pili in spicula pedicellata magis patentes; gl. iii. spiculam æquans, 5-nervis, interstitiis sub lente pilosellis, margine dense ciliata, pili in spicula pedicellata patentes velut in *D. sanguinale* var. *ciliare*.

Formosa: Apes' Hill, Takow (*A. Henry*, 1941!). Mus. Brit.; Herb. Kew.

A somewhat delicate plant, recalling in habit *Digitaria debilis*, from which it differs in its shorter second glume and the bearded third glume.

4. **Digitaria humifusa**, *Pers. Syn.* i. p. 85.

Panicum glabrum, *Gaudin, Agrost. Helvet.* i. p. 22; *Hack. in Bull. Herb. Boiss.* vii. (1899) p. 643.

Panicum humifusum, *Kunth, Rév. Gram.* i. p. 33.

Paspalum ambiguum, *DC. Fl. Franç.* iii. p. 16; *Hook. f. Fl. Brit. Ind.* vii. p. 17.

Digitaria glabra, *Beauv. Agrost.* p. 160; *Maxim. Prim. Fl. Amur.* p. 328; *Regel, Tent. Fl. Ussur.* p. 171.

Shingking (*Ross*, 78, 141!), Kaichow to Kinchow (*Ross*, 190!). Herb. Kew.

Japan, Himalayas, Central and North Asia, Europe.

The last-mentioned specimen approaches *D. longiflora*, Pers.

5. **Digitaria longiflora**, *Pers. Syn.* i. p. 85; *Rendle, in Cat. Afr. Pl. Welw.* ii. p. 162.

Digitaria tenuiflora, *Beauv. Agrost.* p. 51.

Panicum parvulum, *Trin. in Mém. Acad. Sci. Pétersb.* sér. 6, iii. (1835) p. 205; *Hack. in Bull. Herb. Boiss.* vii. (1899) p. 643.

Panicum tenuiflorum, *R. Br. Prodr.* p. 193.

Paspalum brevifolium, *Fluegg. Monogr.* p. 150; *Benth. Fl. Hongk.* p. 408; *Franchet, in Mém. Soc. Sci. Nat. Cherbourg*, xxiv. (1884) p. 267; *Franch. et Savat. Enum. Pl. Jap.* ii. p. 159.

Paspalus chinensis, *Nees, in Hook. & Arn. Bot. Beechey's Voy.* p. 231.

Paspalum longiflorum, *Retz. Obs.* iv. p. 15; *Hook. f. Fl. Brit. Ind.* vii. p. 17.

China (*Baird*! *Fortune*, 128!); Shantung: Chefoo (*Forbes*!); Kiangsu: Shanghai (*Maingay*, 551, 552 in part, 107!); Chekiang (*Staunton*!); Formosa: Takow (*A. Henry*, 1939!); Hupeh: Patung (*A. Henry*, 2504 in part!); Shensi: Mt.

Miaowansan (*Hugh* !); NORTH CENTRAL CHINA: Leunteon, Fenghosan (*Hugh* !); KWANGTUNG: Whampoa (*Robertson* !); HONGKONG (*Hance*, 1070 !). Mus. Brit.; Herb. Kew.

Japan, India, and warmer regions of the Old World.

In the plant from Chefoo (*Forbes*) the spikelets are 1 line long.

6. **Digitaria sanguinalis**, *Scop. Fl. Carniol.* ed. 2, i. p. 52; *Maxim. Prim. Fl. Amur.* p. 479.

Panicum sanguinale, *Linn. Sp. Pl.* p. 57; *Benth. Fl. Hongk.* p. 410; *Trin. in Bunge, Enum. Pl. Chin. Bor.* p. 70; *Franchet, Pl. David.* ii. p. 142; *Franch. et Savat. Enum. Pl. Jap.* ii. p. 163; *Hack. in Bull. Herb. Boiss.* vii. (1899) pp. 643, 723.

Paspalum sanguinale, *Lam. Illustr.* i. p. 176; *Hook. f. Fl. Brit. Ind.* vii. p. 13; *Pilger, in Engl. Bot. Jahrb.* xxix. (1900) p. 223; *Palibin, in Act. Hort. Petrop.* xix. (1901) p. 126.

CHINA: without locality (*Staunton* !); SHANTUNG (*Maingay*, 70 !); KIANGSU: Shanghai (*Maingay*, 552 in part, 553, 670, 694 !), Ningpo Mts. (*Faber*, 301 !); KIANGSI: Kiukiang (*Reid* !); HUPEH: Patung (*A. Henry*, 2504 in part); KWANGTUNG (*Lamont* !), Canton (*Sampson*, 285 !); HONGKONG (*Wilford*, 241 ! *Lamont* !); LUCHU ARCHIPELAGO (*Beechey* !). Mus. Brit.; Herb. Kew.

Widely distributed in warm countries.

Var. **ciliaris**, *Doell, Rhein. Fl.* p. 126; *Franch. et Savat. Enum. Pl. Jap.* ii. p. 163; *Hack. in Bull. Herb. Boiss.* vii. (1899) pp. 643, 723.

Digitaria ciliaris, *Pers. Syn.* i. p. 85; *Miq. Prol. Fl. Jap.* p. 164.

Panicum ciliare, *Retz. Obs.* iv. p. 16; *Debeaux, Fl. Tchéfou*, p. 154; *Franchet, in Mém. Soc. Sci. Nat. Cherbourg*, xxiv. (1884) p. 267.

Panicum commutatum, *Nees, in Hook. & Arn. Bot. Beechey's Voy.* p. 232, non *in Linnæa*, vii. (1832) p. 274.

EAST COAST: without locality (*Horne* !); CHIHLI: Peking (*Bretschneider*, 818 ! *Bushell* ! *Williams*, in herb. *Hance*, 1556 !); SHINGKING: Kaichow Hills (*Ross*, 309 !); CHEKIANG (*Staunton* !); FORMOSA (*Campbell* !), Takow, near sea-beach cliff (*A. Henry*, 727 !), South Cape (*Schmürer*, in coll. *Henry*, 250 !); SHENSI: Mt. Kiansan, Huscienscien, and Kaolinsien (*Hugh* !); KWANGTUNG: Sam Cocks Island near Macao (*Staunton* !), Macao (*Vachell* !). Mus. Brit.; Herb. Kew.

Japan, Europe, and warmer parts of Old World.

Var. **cruciata**, *Hook. f. Fl. Brit. Ind.* vii. p. 14.

HUPEH: Changyang (*A. Henry*, 7508!), Patung (*A. Henry*, 5044!); SZECHUEN (*A. Henry*, 7036!), a young plant with panicle still partly enclosed in the uppermost leaf-sheath, which from the structure of the spikelet may belong to this variety. Mus. Brit.; Herb. Kew.

Himalayas.

Var. **extensa**, *Hook. f. Fl. Brit. Ind.* vii. p. 16; *Rendle, in Cat. Afr. Pl. Welw.* ii. p. 163.

FORMOSA: Apes' Hill, Takow (*A. Henry*, 1128!), Takow (*A. Henry*, 764!); LUCHU ARCHIPELAGO (*Beechey*!). Mus. Brit.; Herb. Kew.

India, Tropical Africa.

Var. **pruriens**, *Hook. f. Fl. Brit. Ind.* vii. p. 15.

KIANGSI: Kiukiang (*Shearer*!); LUCHU ARCHIPELAGO (*Wright*!). Herb. Kew.

India, Malaya.

7. **Digitaria setifolia**, *Stapf, in Dyer, Fl. Cap.* vii. p. 376.

Panicum fibrosum, *Hack. in Oest. Bot. Zeitschr.* li. (1901) p. 332.

KWANGTUNG: near Canton (*Hance*, 7425!); HONGKONG: hills on the south side of the island (*Wilford*, 257!). Mus. Brit.; Herb. Kew.

South Africa.

The leaves in the Chinese specimens are broader and less rigid than in the South African, not glaucous and somewhat more sparsely hairy; the hairs, moreover, are finer. There is no difference between the spikelets. It is impossible to separate specifically the plants from the two countries, or to regard them otherwise than as geographical forms. I find MS. notes by General Munro in the Kew Herbarium on the ticket with Wilford's specimen, pointing out its identity with the South African plant.

8. **Digitaria tenuispica**, *Rendle*, n. sp.

Culmus repens, radicans, pertenuis, ramosus, rami erecti, florentes ad 9 poll. longi. *Foliorum* vaginæ tenues, glabræ; ligula truncata, vix 1 lin. longa; lamina anguste lineari-lanceolata, flaccida, facie sparse pilosa, margine indurata, ad 2–2½ poll. longa.

Spicæ digitatæ, ternæ, pertenues, 2–3½ poll. longæ; rhachis anguste viride-alata; spiculæ densiusculæ, 1¼–1⅓ lin. longæ, anguste lanceolatæ, acutæ, alter cujusque paris pedicellata, pedicellus ¾ lin. longus. *Gluma* i. pæne obsoleta, triangularis; gl. ii. suboblonga, quam gl. iii. circa duplo brevior, 3-nervis, breviter pilosa; gl. iii. spiculæ æquans, anguste lanceolata, acuta, 5-nervis, nervis lateralibus in parte inferiore sparsius pilosis.

Kiangsu: Shanghai (*Maingay*, 554!); Kwangtung: Macao (*Buchanan-Hamilton*!). Mus. Brit.; Herb. Kew.

Near the Sumatran *D. pertenuis*, Büse, which, from the description, it apparently resembles in habit, but is distinguished by its lanceolate, not oval, spikelets, shorter second glume, and absence of hairs between the veins on the larger barren glume.

9. **Digitaria ternata,** *Stapf, in Dyer, Fl. Cap.* vii. p. 376.

Panicum ternatum, *Hochst. in Flora*, xxiv. *Intelligenzbl.* i. (1841) p. 19; *Steud. Syn. Gram.* p. 40.

Paspalum ternatum, *Hook. f. Fl. Brit. Ind.* vii. p. 17.

Yunnan: Mengtze, cliff at 4700 ft. (*A. Henry*, 11180!). Mus. Brit.; Herb. Kew.

India, Tropical and South Africa.

1. **Panicum acroanthum,** *Steud. Syn. Gram.* p. 87; *Miq. in Ann. Mus. Bot. Lugd.-Bat.* ii. p. 275; *Franch. et Savat. Enum. Pl. Jap.* ii. p. 162; *Hack. in Engl. Bot. Jahrb.* vi. (1884) p. 49, *et in Bull. Herb. Boiss.* vii. (1899) p. 644, et sér. 2, iii. (1903) p. 502.

Shantung: Chefoo (*Forbes*, 398!); Kiangsu: Kiangnan (*Staunton*!); Szechuen: North Wushan (*A. Henry*, 7051!); Luchu Archipelago (*Döderlein*, fide *Hackel*). Mus. Brit.; Herb. Kew.

Japan, Assam.

2. **Panicum ambiguum,** *Trin. in Mém. Acad. Ptéersb.* sér. 6, iii. p. 243; *Hook. f. Fl. Brit. Ind.* vii. p. 33.

Luchu Archipelago (*Wright*!). Herb. Kew.

India, Ceylon, Malaya, Pacific Islands.

3. **Panicum amplexicaule,** *Rudge, Pl. Gui.* i. p. 21, t. 27.

Panicum Myurus, *H. B. & K. Nov. Gen. & Sp.* i. p. 98; *Hack. in Bull. Herb. Boiss.* vii. (1899) p. 723; *Hook. f. Fl. Brit. Ind.* vii. p. 39; *Benth. Fl. Austral.* vii. p. 480.

Hymenachne Myuros, *Beauv. Agrost.* p. 165, t. 10. fig. 8; *Steud. Syn. Gram.* p. 101.

Hymenachne amplexicaulis, *Nees, Agrost. Brasil.* p. 276; *Steud. Syn. Gram.* p. 102.

FORMOSA: Takow (*A. Henry*, 1950!). Mus. Brit.; Herb. Kew.

India, Malaya, Tropical Australia, South America.

4. **Panicum brevifolium**, *Linn. Sp. Pl.* p. 59, excl. syn.; *Osbeck, Resa*, p. 215.

Panicum arborescens, *Linn. Sp. Pl.* p. 59, in part; ? *Osbeck, l. c.* p. 206.

Panicum ovalifolium, *Poir. Encycl.* iv. p. 279; *Benth. Fl. Hongk.* p. 413; *Hook. f. Fl. Brit. Ind.* vii. p. 44.

FORMOSA (*Campbell*!); KWANGTUNG: Sichusan, 40 miles west of Canton (*Parry*, in herb. *Hance*, 9391 in part!) (*Sampson*, 418!), Whampoa (*Hance*, 1006 in part!); HONGKONG (*Hance*, 1006 in part, 9391 in part! *Harland*, 684! in herb. *Hance*, *Wilford*, 251!), Little Hongkong Woods (*Lamont*!); HAINAN (*A. Henry*, 8076!). Mus. Brit.; Herb. Kew.

India, Malaya, Tropical Africa.

5. **Panicum colonum**, *Linn. Syst.* ed. 10, p. 870; *Nees, in Hook. & Arn. Bot. Beechey's Voy.* p. 232; *Benth. Fl. Hongk.* p. 411; *Pilger, in Engl. Bot. Jahrb.* xxix. (1900) p. 223; *A. Henry, in Trans. Asiat. Soc. Jap.* xxiv. *Suppl.* (1896) p. 106; *Franch. et Savat. Enum. Pl. Jap.* ii. p. 160; *Hook. f. Fl. Brit. Ind.* vii. p. 32.

CHEKIANG: Ningpo (*Swinhoe*, in herb. *Hance*!); HUPEH: Ichang (*A. Henry*, 2769, 4286!), Patung (*A. Henry*, 7313!); HONGKONG: Aberdeen (*Lamont*! *Hance*, 1258!); HAINAN (*A. Henry*, 31!). Mus. Brit.; Herb. Kew.

Widely distributed in warm countries.

6. **Panicum Crus-Galli**, *Linn. Sp. Pl.* p. 56; *Osbeck, Resa*, pp. 48, 215; *Trin. in Bunge, Enum. Pl. Chin. Bor.* p. 70; *Benth. Fl. Hongk.* p. 411; *Franchet, in Mém. Soc. Sci. Nat. Cherbourg*, xxiv. (1884) p. 266, *et Pl. David.* i. p. 322; *Pilger, in Engl. Bot. Jahrb.* xxix. (1900) p. 223; *Palibin, in Act. Hort. Petrop.* xix. (1901) p. 127, et xxi. (1903) p. 10; *A. Henry, in Trans. Asiat. Soc. Jap.* xxiv. *Suppl.* (1896) p. 106; *Franch. et Savat. in*

Enum. Pl. Jap. ii. p. 160; *Hack. in Bull. Herb. Boiss.* vii. (1899) p. 643, et sér. 2, iii. (1903) p. 501.

Panicum Crus-Corvi, *Linn. Syst. Nat.* ed. 10, p. 870; *Lour. Fl. Cochinch.* p. 46.

Panicum cæsium, *Nees, in Hook. & Arn. Bot. Beechey's Voy.* p. 235.

Panicum hispidulum, *Hook. & Arn. l. c.* pp. 235, 273.

Echinochloa Crus-Galli, *Beauv. Agrost.* p. 53; *Maxim. Primit. Fl. Amur.* p. 479.

Oplismenus Crus-Galli, *Dum. Obs. Gram. Fl. Belg.* p. 138; *Kunth, Enum. Pl.* i. p. 143; *Debeaux, Fl. Tchéfou*, p. 154; *Fl. Tientsin*, p. 46; *Miq. in Ann. Mus. Bot. Lugd.-Bat.* ii. p. 274.

CHINA: without locality (*Fortune*, 123!); NORTH CHINA: without locality (*Daniell*! *Moellendorf*, in herb. *Hance*, 1549!); EAST COAST (*Home*!); CHIHLI: Jehol (*David*, 2114!); KIANGSU: Shanghai (*Maingay*, 569, 570, 668! *Faber*!); CHEKIANG: Ningpo (*Swinhoe*, in herb. *Hance*, 10234 in part!); FORMOSA (*Oldham*, 601, 602, 603!), Takow (*A. Henry*, 1046, 1796, 1960, 2003!), Bankinsing (*A. Henry*, 841!), South Cape (*Schmürer*, in coll. *A. Henry*, 276!); HUPEH: Ichang (*A. Henry*, 746, 2341, 4336, 7743!); SHENSI: Mt. Kiansan, Husienscien (*Hugh*!), Kaolinsien, Kusan and Hukiascien (*Hugh*!); NORTH CENTRAL CHINA; Leunteon, Fenghosan (*Hugh*!); KWANGTUNG: Canton, hillside near Sunin (*Lamont*!), Whampoa (*Hance*, 10234 in part! 10235!), Macao (*Calléry*, 355! *Vachell*, 43!), Pakhoi (*Playfair*!); HONGKONG: paddy-fields (*Ford*, 598! *Harland*, 698!); COREA: Port Hamilton (*Oldham*, 928!); HOOPER ISLAND (*Oldham*, 1073!). Mus. Brit.; Herb. Kew.

A weed in the temperate zones of both hemispheres.

Var. **frumentaceum**, *Trimen, Cat. Ceyl. Pl.* p. 104; *Hook. f. Fl. Brit. Ind.* vii. p. 31; *Palibin, in Act. Hort. Petrop.* xix. (1901) p. 127.

Panicum frumentaceum, *Roxb. Fl. Ind.* p. 102; *Franchet, in Mém. Soc. Sci. Nat. Cherbourg*, xxiv. (1884) p. 266.

Panicum stagninum, *Hance, in Journ. Linn. Soc., Bot.* xiii. (1873) p. 133, non *Retz.*

Oplismenus frumentaceus, *Kunth, Rév. Gram.* i. p. 45; *Debeaux, Fl. Tchéfou*, p. 154.

CHIHLI: Peking (*Bretschneider*, 810, 811!); SHINGKING (*Ross*, 33½!); SZECHUEN (*Faber*, 1165!); KWEICHAU: Paitzu-Weining (*Bourne*!). Herb. Kew.

Cultivated in hotter parts of Asia and Africa.

7. **Panicum decompositum**, *R. Br. Prodr.* p. 191; *Benth. Fl. Austral.* vii. p. 489.

FORMOSA: sea-face of Apes' Hill, Takow, rare, growing more or less in clusters (*A. Henry*, 1080!), South Cape (*Schmürer*, in coll. *Henry*, 255!). Mus. Brit.; Herb. Kew.

Tropical Australia.

8. **Panicum distachyum**, *Linn. Mant.* p. 183; *Kunth, Enum. Pl.* i. p. 91; *Benth. Fl. Hongk.* p. 410: *Hack. in Bull. Herb. Boiss.* vii. (1899) p. 723; *Hook. f. Fl. Brit. Ind.* vii. p. 37.

FORMOSA: Kelung (*Makino*, fide *Hackel*); HONGKONG: spontaneous (*Hance*, 1983!). Mus. Brit.; Herb. Kew.

India, Malaya, Australia.

9. **Panicum humile**, *Nees, ex Steud. Syn. Gram.* p. 84; *Hance, in Journ. Bot.* xvi. (1878) p. 233; *Hook. f. Fl. Brit. Ind.* vii. p. 48.

KWANGTUNG: Canton (*Sampson*, in herb. *Hance*, 9896 in part!), Whampoa (*Hance*, 9686 in part!), Pakhoi (*Playfair*, 158!). Mus. Brit.; Herb. Kew.

India, Malaya.

10. **Panicum indicum**, *Linn. Mant.* p. 184; *Steud. Syn. Gram.* p. 84; *Benth. Fl. Hongk.* p. 413; *Pilger, in Engl. Bot. Jahrb.* xxix. (1900) p. 223; *Hack. in Bull. Herb. Boiss.* vii. (1899) p. 644, et sér. 2, iii. (1903) p. 502.

CHINA: without locality (*Staunton*! *Fortune*!); FORMOSA: Bankinsing Mts. (*A. Henry*, 1547!); HUPEH: Ichang (*A. Henry*, 2750, 4312!), Nanto (*A. Henry*, 4423!); HONGKONG (*Hance*, 1072! *Wilford*, 240! *Wright*!). Mus. Brit.; Herb. Kew.

Japan, and tropics of Old World.

Var. **angustum**, *Hook. f. Fl. Brit. Ind.* vii. p. 42.

Panicum angustum, *Trin. Ic. Gram.* t. 334.

KWANGTUNG (*Tate*!), Pakhoi (*Playfair*, 141!). Herb. Kew.

India.

Var. **contractum**, *Miq. in Ann. Mus. Bot. Lugd.-Bat.* ii. p. 275; *Hack. in Engl. Bot. Jahrb.* vi. (1884) p. 49; *Franch. et Savat. Enum. Pl. Jap.* ii. p. 163.

LUCHU ARCHIPELAGO: Amami Osima (*Döderlein*, fide *Hackel*).

Japan.

I have seen no specimen.

11. **Panicum khasianum,** *Munro, ex Hook. f. Fl. Brit. Ind.* vii. p. 54.

YUNNAN: Mengtze, 5500 ft., in a wood (*A. Henry*, 9379!). Herb. Kew.

Himalayas and Khasia Hills.

12. **Panicum maximum,** *Jacq. Ic. Pl. Rar.* i. t. 13; *Steud. Syn. Gram.* p. 72; *Benth. in Hook. Niger Fl.* p. 560; *Hook. f. Fl. Brit. Ind.* vii. p. 49.

HONGKONG: cultivated (*Hance*, 716!). Mus. Brit.

An African grass which is cultivated in many parts of India.

13. **Panicum miliaceum,** *Linn. Sp. Pl.* p. 58; *Steud. Syn. Gram.* p. 77; *Lour. Fl. Cochinch.* p. 59; *Nees, in Hook. & Arn. Bot. Beechey's Voy.* p. 233; *Trin. in Bunge, Enum. Pl. Chin. Bor.* p. 70; *Maxim. Prim. Fl. Amur.* p. 479; *Debeaux, Fl. Shanghai*, p. 69, *Fl. Tchéfou*, p. 155, *et Fl. Tientsin*, p. 48; *Franchet, in Mém. Soc. Sci. Nat. Cherbourg*, xxiv. (1884) p. 266; *Palibin, in Act. Hort. Petrop.* xxi. (1903) p. 10; *Miq. in Ann. Mus. Bot. Lugd.-Bat.* ii. p. 275; *Franch. et Savat. Enum. Pl. Jap.* ii. p. 163; *Hack. in Bull. Herb. Boiss.* vii. (1899) p. 644; *A. Henry, in Trans. Asiat. Soc. Jap.* xxiv. *Suppl.* (1896) p. 106; *Hook. f. Fl. Brit. Ind.* vii. p. 45.

NORTH CHINA (*Daniell*!); CHILHI: Peking, cult. (*Bretschneider*, 804!); SHANTUNG: Chefoo (*Forbes*, 1069! *Maingay*, 80!), Tsien Mountains (*Faber*, 1531!); HUPEH (*A. Henry*, 6611!); WEST CHINA: Chiensi (*Wilson*, 1667!); COREA (*Oldham*, 926!). Mus. Brit.; Herb. Kew.

Widely cultivated in warm countries.

14. **Panicum montanum,** *Roxb. Fl. Ind.* i. p. 313; *Kunth, Enum. Pl.* i. p. 126; *Benth. Fl. Hongk.* p. 412; *Hook. f. Fl. Brit. Ind.* vii. p. 53.

KWANGTUNG: Canton (*Hance*, 9905!); HONGKONG (*Wright*!). Mus. Brit.; Herb. Kew.

Hotter hill-districts of India southwards to Ceylon; Malaya.

15. **Panicum nodosum,** *Kunth, Enum. Pl.* i. p. 97; *Benth. Fl. Hongk.* p. 412; *Hook. f. Fl. Brit. Ind.* vii. p. 43.

Panicum multinode, *Presl, Rel. Haenk.* i. p. 303; *Steud. Syn. Gram.* p. 59.

HONGKONG (*Wilford*, 254!). Herb. Kew.

India to Malacca and Ceylon; Malaya.

16. **Panicum patens**, *Linn. Sp. Pl.* p. 58; *Kunth, Enum. Pl.* i. p. 126; *Hack. in Bull. Herb. Boiss.* vii. (1899) pp. 721, 723; *Hook. f. Fl. Brit. Ind.* vii. p. 57.

Panicum accrescens, *Trin. Ic. Gram.* t. 88.

Panicum radicans, *Retz. Obs.* iv. p. 18.

FOKIEN: Amoy (*Hance*, 1400!); FORMOSA: Bankinsing Mountains (*A. Henry*, 1545!); HONGKONG: Race-course, Happy Valley (*Lamont*!); LUCHU ARCHIPELAGO (*Tashiro*, fide *Hackel*). Mus. Brit.; Herb. Kew.

India, Malaya, Pacific Islands.

17. **Panicum proliferum**, *Lam. Encycl.* iv. p. 747; *Steud. Syn. Gram.* p. 71; *Hook. f. Fl. Brit. Ind.* vii. p. 50.

Panicum natans, *Koen. ex Trin. Gram. Pan.* p. 237.

Panicum paludosum, *Roxb. in Hort. Bengal.* p. 8 (nomen), *et Fl. Ind.* i. p. 307; *Hack. in Bull. Herb. Boiss.* vii. (1899) p. 723.

FORMOSA: Takow, in ditch (*A. Henry*, 1948!). Mus. Brit.; Herb. Kew.

India, Tropical Africa, Atlantic States of North America, and Central America.

18. **Panicum prostratum**, *Lam. Illustr.* i. p. 171; *Steud. Syn. Gram.* p. 62; *Hook. f. Fl. Brit. Ind.* vii. p. 33; *Benth. Fl. Austral.* vii. p. 476.

FORMOSA: Takow (*A. Henry*, 1020, 1020 A, 1919!), Apes' Hill (*Playfair*, 22!); KWANGTUNG: Whampoa (*Hance*, 5694!). Mus. Brit.; Herb. Kew.

India, Malaya, Tropical Australia; West Indies.

19. **Panicum psilopodium**, *Trin. Gram. Panic.* p. 217; *Steud. Syn. Gram.* p. 83; *Nees, in Hook. & Arn. Bot. Beechey's Voy.* p. 233; *Hook. f. Fl. Brit. Ind.* vii. p. 46.

CHINA: without locality (*Beechey*!); KWANGTUNG: around Macao (*Millett*, fide *Nees*). Herb. Kew.

India to Burma, Malacca, and Ceylon.

20. **Panicum repens**, *Linn. Sp. Pl.* ed. 2, p. 87; *Kunth, Enum. Pl.* i. p. 103; *Benth. Fl. Hongk.* p. 412; *Pilger, in Engl. Bot. Jahrb.* xxix. (1900) p. 223; *Hack. in Bull. Herb. Boiss.* vii. (1899) p. 644; *Hook. f. Fl. Brit. Ind.* vii. p. 49.

Panicum ischæmoides, *Retz. Obs.* iv. p. 17; *Nees, in Hook. & Arn. Bot. Beechey's Voy.* p. 233; *Hook. & Arn. l. c.* p. 273.

FORMOSA (*Campbell*! *Playfair*, 172, 195!), Apes' Hill, sea-face in wet place (*A. Henry*, 724!), Takow, moist place (*A. Henry*, 1171!); HONGKONG (*Hance*, 1186! *Wright*!); LUCHU ARCHIPELAGO (*Beechey*!). Mus. Brit.; Herb. Kew.

Japan, India, Malaya, and Mediterranean region.

21. **Panicum sarmentosum,** *Roxb. Hort. Bengal.* p. 8 (nomen), *et Fl. Ind.* i. p. 308; *Benth. Fl. Hongk.* p. 412; *Hance, in Journ. Linn. Soc., Bot.* xiii. (1873) p. 133; *Hook. f. Fl. Brit. Ind.* vii. p. 54.

Panicum concinnum, *Nees, in Hook. Kew Journ.* ii. (1850) p. 97; *Steud. Syn. Gram.* p. 78.

Panicum incomtum, *Trin. Gram. Pan.* p. 200, *et Sp. Gram. Ic.* t. 232.

Panicum micrognostum, *Steud. Syn. Gram.* p. 78.

Panicum vacillans, *Steud. l. c.* p. 75.

HONGKONG (*Harland*! *Wilford*, 242! *Wright*!); CHINA: without locality (*Seemann*, 2397!). Mus. Brit.; Herb. Kew.

India, Malaya to Philippine Islands, and Borneo.

22. **Panicum trypheron,** *Schult. Mant.* ii. p. 244; *Hook. f. Fl. Brit. Ind.* vii. p. 47; *Rendle, in Cat. Afr. Pl. Welw.* ii. p. 181.

CHIHLI: Salt plains, Tientsin (*Fortune*!); KWANGTUNG: Whampoa and Macao (*Hance*, 1944 in part!); HONGKONG (*Hance*, 1944 in part!). Mus. Brit.; Herb. Kew.

India, Malaya, Tropical Africa.

23. **Panicum villosum,** *Lam. Illustr.* i. p. 173; *Kunth, Enum. Pl.* i. p. 98; *Hack. in Bull. Herb. Boiss.* vii. (1899) p. 644; *Hook. f. Fl. Brit. Ind.* vii. p. 34.

Panicum coccospermum, *Steud. Syn. Gram.* p. 62.

Panicum nilagiricum, *Steud. l. c.*

FOKIEN: near Amoy (*Sampson*, in herb. *Hance*, 8223 in part!); FORMOSA (*Playfair*!); KWANGTUNG (*Ford*, 210!), Canton and Macao (*Hance*, 8223 in part!), Whampoa (*Wright*!), Wong Mau Islands, Chinese Sea (*Sampson*, in herb. *Hance*, 8223 in part!). Mus. Brit.; Herb. Kew.

India (hill-regions), Burma, Tonkin.

1. **Axonopus cimicinus,** *Beauv. Agrost.* p. 12; *Hook. f. Fl. Brit. Ind.* vii. p. 64.

Panicum cimicinum, *Retz. Obs.* iii. p. 9.

HONGKONG: Happy Valley woods (*Lamont*!). Mus. Brit.

India, Malaya.

2. **Axonopus semialatus,** *Hook. f. Fl. Brit. Ind.* vii. p. 64; *Rendle, in Cat. Afr. Pl. Welw.* ii. p. 184.

Panicum semialatum, *R. Br. Prodr.* p. 192; *Benth. Fl. Austral.* vii. p. 472.

KWANGTUNG: Canton (*Sampson*, 280!), Pakwan Hills near Canton (*Hance*, 9900!), Swatow (*Perry*!); KWANGTUNG (*A. Henry*, 39!). Mus. Brit.; Herb. Kew.

India, Malaya, Australia, Tropical Africa.

1. **Ichnanthus pallens,** *Munro, in Benth. Fl. Hongk.* p. 414; *Hook. f. Fl. Brit. Ind.* vii. p. 60; *Doell, in Martius, Fl. Bras.* ii. pt. 2, p. 290.

Panicum pallens, *Sw. Prodr.* p. 23, *et Fl. Ind. Occ.* i. p. 164; *Kunth, Enum.* i. p. 89.

FORMOSA: Tamsui (*Oldham*, 646!); KWANGTUNG: Canton (*Sampson & Hance*, in herb. *Hance*, 2676!); HONGKONG: Little Hongkong woods (*Lamont*! *Wright*!). Mus. Brit.; Herb. Kew.

Tropics of both worlds.

1. **Setaria Forbesiana,** *Hook. f. Fl. Brit. Ind.* vii. p. 81; *Pilger, in Engl. Bot. Jahrb.* xxix. (1900) p. 223.

Setaria macrostachya, var. Schultzii, *Benth. Fl. Austral.* vii. p. 493.

Panicum Forbesianum, *Nees, ex Steud. Syn. Gram.* p. 98.

Chamæraphis setosa, var. Schultzii, *Kuntze, Rev. Gen.* ii. p. 769.

KIANGSU: Shanghai (*Faber*, 281!); HUPEH: Ichang (*A. Henry*, 4246!), Nanto and mountains to north (*A. Henry*, 4642!); CHINA: no locality (*Macartney*!). Mus. Brit.; Herb. Kew.

Northern India.

I have followed Sir Joseph Hooker in regarding this as distinct from the American and Australian *S. macrostachya*, but the two species are very closely allied.

2. **Setaria glauca**, *Beauv. Agrost.* p. 51; *Kunth, Enum. Pl.* i. p. 149; *Maxim. Primit. Fl. Amur.* pp. 330, 479; *Debeaux, Fl. Shanghai*, p. 68, *Fl. Tchéfou*, p. 155, *et Fl. Tientsin*, p. 47; *Franchet, Pl. David.* i. p. 323, ii. p. 142; *Pilger, in Engl. Bot. Jahrb.* xxix. (1900) p. 223; *Palibin, in Act. Hort. Petrop.* xix. (1901) p. 128; *Hack. in Bull. Herb. Boiss.* vii. (1899) p. 645; *A. Henry, in Trans. Asiat. Soc. Jap.* xxiv. *Suppl.* (1896) p. 106.

Panicum glaucum, *Linn. Syst. Nat.* ed. 10, p. 870; *Benth. Fl. Hongk.* p. 411; *Nees, in Hook. & Arn. Bot. Beechey's Voy.* p. 234; *Franchet, in Mém. Soc. Sci. Nat. Cherbourg*, xxiv. (1884) p. 266; *Franch. et Savat. Enum. Pl. Jap.* ii. p. 161.

Panicum penicillatum, *Nees, Agrost. Bras.* p. 242, *et in Hook. & Arn. Bot. Beechey's Voy.* p. 234; *Hook. & Arn. l. c.* p. 273.

KIANGSU: Shanghai (*Maingay*, 562!); CHUSAN ISLAND: Tin-Hae (*Leclancher*!); FORMOSA (*Campbell*! *Oldham*, 608!), Takow, in ditch (*A. Henry*, 1109!), Apes' Hill (*A. Henry*, 1904!); HUPEH: Ichang (*A. Henry*, 18, 2263!); SHENSI: Kusan and Kaolinsien (*Hugh*!); SOUTH CHINA: without locality (*Seemann*, 2395!); YUNNAN: Mengtze, 4800 ft. (*A. Henry*, 9613!), and grass mountains 5500 ft. (*A. Henry*, 10994!); KWANGTUNG (*Sampson*, 289!), Lienchau (*Lamont*!), Macao (*Abel*!), Pakhoi (*Playfair*, 149!), Whampoa (*Wright*!); HONGKONG (*Lamont*! *Hance*, 847! *Wilford*, 262! *Wright*!); HAINAN (*A. Henry*, 8687!). Mus. Brit.; Herb. Kew.

Japan, and widely distributed in temperate and tropical regions.

3. **Setaria italica**, *Beauv. Agrost.* p. 51; *Kunth, Enum.* i. p. 153; *Debeaux, Fl. Shanghai*, p. 69, *Fl. Tchéfou*, p. 155, *et Fl. Tientsin*, p. 47; *Pilger, in Engl. Bot. Jahrb.* xxix. (1900) p. 223; *A. Henry, in Trans. Asiat. Soc. Jap.* xxiv. *Suppl.* (1896) p. 106; *Hack. in Bull. Herb. Boiss.* vii. (1899) p. 645.

Panicum italicum, *Linn. Sp. Pl.* p. 56; *Lour. Fl. Cochinch.* p. 46; *Nees, in Hook. & Arn. Bot. Beechey's Voy.* p. 234; *Hook. & Arn. l. c.* p. 273; *Franchet, in Mém. Soc. Sci. Nat. Cherbourg*, xxiv. (1884) p. 266; *Franch. et Savat. Enum. Pl. Jap.* ii. p. 162; *Trin. in Bunge, Enum. Pl. Chin. Bor.* p. 70 (var. germanicum, *Willd.*).

NORTH CHINA: without locality (monstrous specimen) (*Daniell*!); CHIHLI: Peking (*Bretschneider*, 806-7!); SHING-

KING: Moukden (*Ross*!); SHANTUNG (*Maingay*, 69!), Chefoo (*Forbes*!); FORMOSA: Bankinsing, cultivated in the mountains (*A. Henry*, 571!); EAST COAST (*Home*!); HUPEH: Patung (*A. Henry*, 885, 2565 A, 5054!), mountains near Ichang (*A. Henry*, 4240!); SZECHUEN (*Faber*, 1189!), Kweichau (*Faber*, 1190!); HONGKONG: cultivated (*Hance*, 848!); HAINAN (*A. Henry*, 8286!); KOREA (*Oldham*!). Mus. Brit.; Herb. Kew.

Cultivated from Southern Europe to Japan and elsewhere in temperate and tropical countries.

4. **Setaria mauritiana**, *Spreng. Syst.* i. p. 305; *Rendle, in Cat. Afr. Pl. Welw.* ii. p. 187.

Panicum palmæfolium, *Koen. in Naturforsch.* xxiii. (1788) p. 208.

Panicum plicatum, *Lam. Illustr.* p. 171 (1791); *Kunth, Enum. Pl.* i. p. 94; *Benth. Fl. Hongk.* p. 411; *Pilger, in Engl. Bot. Jahrb.* xxix. (1900) p. 223; *A. Henry, in Trans. Asiat. Soc. Jap.* xxiv. *Suppl.* (1896) p. 106; *Hook. f. Fl. Brit. Ind.* vii. p. 55.

Panicum excurrens, *Trin. Ic. Gram.* t. 89; *Kunth, Enum. Pl.* i. p. 94; *Benth. Fl. Hongk.* p. 412; *Hack. in Bull. Herb. Boiss.* vii. (1899) p. 644.

Panicum nervosum, *Roxb. Fl. Ind.* i. p. 314.

SHINGKING: Chienshan (*Ross*, 443!); FOKIEN: Amoy (*Hance*, 1397!); FORMOSA (*Oldham*, 600!), Bankinsing Mountains (*A. Henry*, 1570!), South Cape (*A. Henry*, 1238!), Siko Hill (*A. Henry*, 1400!); HUPEH: Ichang (*A. Henry*, 4264, 4265, 4316, 4320!), Nanto (*A. Henry*, 4450, 4630!); SZECHUEN: Yangtzekiang, Wushan gorge (*Faber*, 1164!); YUNNAN: Mengtze, 4600 to 5500 ft. (*A. Henry*, 9496, 9496 A, 10013, 10013 A, 10972, 10999!); KWANGTUNG: Canton (*Sampson*, 632! *Hance*, 2133 in part!); HONGKONG (*Lamont*! *Hance* 2133 in part! *Faurie*, 15863!); KWANGSI: Lungchow (*Morse*, 368!). Mus. Brit.; Herb. Kew.

Japan, India, Malaya, Tropical Africa.

5. **Setaria viridis**, *Beauv. Agrost.* p. 51; *Kunth, Enum. Pl.* i. p. 151; *Maxim. Primit. Fl. Amur.* pp. 330 & 479; *Debeaux, Fl. Tientsin*, p. 47; *Franchet, Pl. David.* ii. p. 323; *Pilger, in Engl. Bot. Jahrb.* xxix. (1900) p. 223; *A. Henry, in Trans. Asiat. Soc. Jap.* xxiv. *Suppl.* (1896) p. 106; *Palibin, in Act. Hort. Petrop.* xix. (1901) p. 128; *Hack. in Bull. Herb. Boiss.* vii. (1899) p. 645.

Panicum viride, *Linn. Syst. Nat.* ed. 10, p. 870; *Trin. in Bunge, Enum. Pl. Chin. Bor.* p. 70; *Nees, in Hook. & Arn. Bot. Beechey's Voy.* p. 235; *Franchet, in Mém. Soc. Sci. Nat. Cherbourg*, xxiv. (1884) p. 267.

CHIHLI: Peking (*Bushell*!), Tientsin (*Fortune*!), mountains west of Pekin (*Bretschneider*, 815!); SHINGKING: Talienwan (*Birnie*!); SHANTUNG: Chefoo (*Forbes*!); KIANGSU (*Maingay*, 561, 761!); CHEKIANG: Ningpo (*Swinhoe*, in herb. *Hance*!); FORMOSA: Tamsui (*Oldham*, 607!), Takow (*A. Henry*, 1104!), Apes' Hill (*Playfair*, 37!), South Cape (*Schmürer*, in coll. *A. Henry*, 969!), Pescadores (*Swinhoe*!); HUPEH: Ichang (*A. Henry*, 191, 2565 A!), Patung (*A. Henry*, 5054 A!); NORTH CENTRAL CHINA: Leunteon (*Hugh*!); SHENSI: Kusan, Kaolinsien, Paoki, Mt. Kiansan and Mt. Lao-y-san (*Hugh*!); SZECHUEN (*Faber*, 1182!), Lofaushan (*Faber*, 18!); KWANGTUNG: Canton (*Sampson*, 230!); LUCHU ARCHIPELAGO (*Wright*!). Mus. Brit.; Herb. Kew.

Widely distributed in temperate and subtropical regions of the Old World.

1. **Oplismenus compositus**, *Beauv. Agrost.* p. 54; *Kunth, Enum. Pl.* i. p. 141; *Franchet, Pl. David.* i. p. 323; *Pilger, in Engl. Bot. Jahrb.* xxix. (1900) p. 223; *A. Henry, in Trans. Asiat. Soc. Jap.* xxiv. *Suppl.* (1896) p. 106; *Hack. in Bull. Herb. Boiss.* vii. (1899) pp. 721, 723; *Hook. f. Fl. Brit. Ind.* vii. p. 66.

Oplismenus loliaceus, *Beauv. l. c.*; *Hack. l. c.* p. 721.

Panicum compositum, *Linn. Sp. Pl.* p. 57; *Steud. Syn. Gram.* p. 44; *Benth. Fl. Hongk.* p. 411.

Orthopogon compositus, *R. Br. Prodr.* p. 194.

FORMOSA: Bankinsing (*A. Henry*, 1557!), South Cape (*Schmürer*, in coll. *A. Henry*, 232!); HUPEH (*A. Henry*, 4349!); SHENSI: Paokisan, Mt. Miaowansan (*Hugh*!); KWANGTUNG: Canton (*Lamont*! *Hance*, 1010 in part!); HONGKONG (*Harland*, 714, in herb. *Hance*, 1010 in part! *Forbes*, 486!); YUNNAN: Mengtze woods, 5500 feet (*A. Henry*, 10971!); LUCHU ARCHIPELAGO (*Tashiro*, fide *Hackel*). Mus. Brit.; Herb. Kew.

Japan.

Widely distributed in the warmer parts of both Old and New Worlds.

2. **Oplismenus undulatifolius,** *Beauv. Agrost.* p. 54; *Kunth, Enum. Pl.* i. p. 139; *Pilger, in Engl. Bot. Jahrb.* xxix. (1900) p. 223; *Franch. et Savat. Enum. Pl. Jap.* ii. p. 654; *Hack. in Bull. Herb. Boiss.* vii. (1899) p. 645, et sér. 2, iii. (1903) p. 502; *Hook. f. Fl. Brit. Ind.* vii. p. 66.

Panicum undulatifolium, *Arduino, Animad. Bot. Spec. alter.* p. 14, t. 4; *Maxim. Prim. Fl. Amur.* p. 479.

CHIHLI: Peking, imperial garden (*Williams*, in herb. *Hance*, 13487 !), in the mountains (*David* !); HUPEH: Patung (*A. Henry*, 4782, 7277 !), Fang (*A. Henry*, 666 !). Mus. Brit.; Herb. Kew.

Japan, Southern Europe to India, Tropical Africa.

1. **Pennisetum compressum,** *R. Br. Prodr.* p. 195; *Steud. Syn. Gram.* p. 102.

Pennisetum chinense, *Nees, ex Steud. Syn. Gram.* p. 108.

Pennisetum japonicum, *Trin. in Spreng. Neue Entdeck.* ii. p. 76, *et Sp. Gram. Ic.* t. 19; *Maxim. Primit. Fl. Amur.* p. 479; *Franchet, Pl. David.* ii. p. 324; *Palibin, in Act. Hort. Petrop.* xix. (1901) p. 128; *Hack. in Bull. Herb. Boiss.* vii. (1899) p. 645, et sér. 2, iii. (1903) p. 502.

Gymnothrix japonica, *Kunth, Enum. Pl.* i. p. 158; *Benth. Fl. Hongk.* p. 413; *Debeaux, Fl. Tchéfou,* p. 156; *Franchet, in Mém. Soc. Sci. Nat. Cherbourg,* xxiv. (1884) p. 267; *Franch. et Savat. Enum. Pl. Jap.* ii. p. 164.

? Alopecurus hordeiformis, *Osbeck, Resa*, p. 232.

CHIHLI: Peking (*Bushell* !), mountains west of Peking (*Bretschneider*, 827 !), Tachiaosze (*Moellendorf*, in herb. *Hance*, 1270 in part !); SHINGKING: Kaichow to Kinchow (*Ross*, 292 !); SHANSI and SHENSI (*Shockley* !); KIANGSU: Kianang (*Staunton* !); CHEKIANG: Chusan Island (no collector), Ningpo (*Faber* !); EAST COAST (*Home* !); FOKIEN: Amoy and French Island (*Hance*, 1270 in part !); HUPEH: Patung (*A. Henry*, 2540 !), Ichang (*A. Henry*, 97, 2364 !); SHENSI: Miaowansan, Paoki, and Kusan (*Hugh* !); YUNNAN: Mengtze, 4500 feet (*A. Henry*, 10170 !); KWANGTUNG: Canton (*Macartney* ! *Sampson*, 290 !), Lippas Island, Danes' Island, and Macao (*Vachell* !), Whampoa (*Robertson* ! *Lamont* !), Pakhoi (*Playfair*, 154 !); HONGKONG (*Hance*, 1270 in part ! *Seeman*, 233 !), Aberdeen (*Lamont* !); HAINAN (*A. Henry*, 7950 !); COREA (*Perry* !);

CHINA: without locality (*Bladh*! *Fortune*, 12!). Mus. Brit; Herb. Kew.

Japan, Burma, Tonkin; Australia.

Var. viridescens, *Rendle.*

Gymnothrix japonica, var. viridescens, *Miq. in Ann. Mus. Bot. Lugd.-Bat.* ii. p. 276.

Pennisetum japonicum, var. viridescens, *Palibin, in Act. Hort. Petrop.* xix. (1901) p. 128.

COREA: Kyongkwi, Inchon and Soul (*Gottsche*, fide *Palibin*).

Japan.

2. **Pennisetum flaccidum**, *Griseb. in Nachr. Ges. Wiss. Götting.* ii. (1868) p. 86; *Franchet, Pl. David.* p. 323; *Hook. f. Fl. Brit. Ind.* vii. p. 84.

Gymnothrix hordeiformis, *Hance, in Ann. Sci. Nat.* sér. 5, v. (1866) p. 250, non *Nees.*

CHIHLI: Peking, walls of the town (*Williams*, in herb. *Hance*, 3386 in part!), Jehol (*David*, 2050!); YUNNAN: Mengtze (*A. Henry*, 9619, 9619 A!); SZECHUEN: Tongolo (*Soulié*, 695!). Mus. Brit.; Herb. Kew.

Himalayas, Central Asia.

3. **Pennisetum typhoideum**, *Rich. in Pers. Syn.* i. p. 72; *Hook. f. Fl. Brit. Ind.* vii. p. 82; *Rendle, in Cat. Afr. Pl. Welw.* ii. p. 191; *Stapf, in Fl. Cap.* vii. p. 432.

Pennisetum spicatum, *Roem. & Schult. Syst.* ii. p. 499.

Holcus spicatus, *Linn. Syst.* ed. 10, p. 1305.

Panicum spicatum, *Roxb. Fl. Ind.* i. (1832) p. 283.

Penicillaria spicata, *Willd. Enum. Hort. Berol.* p. 1037; *Kunth, Enum.* i. p. 165.

CHIHLI: Peking, Imperial garden (*Bretschneider*, in herb. *Hance*, 15910!). Mus. Brit.

Cultivated in India and Tropical Africa.

1. **Chamæraphis spinescens**, *Poir. Encycl.* ii. p. 189; var. **Brunoniana**, *Hook. f. Fl. Brit. Ind.* vii. p. 62.

Panicum asperum, *Koen. in Naturf.* xxiii. (1788) p. 209.

Panicum spinescens, *R. Br. Prodr.* p. 193; *Kunth, Enum. Pl.* i. p. 131.

KWANGTUNG: in rather deep ponds around Canton (*Sampson*, 367!). Mus. Brit.; Herb. Kew.

India, Tonkin, Malaya, Australia.

1. **Thysanolæna Agrostis,** *Nees, in Edinb. New Phil. Journ.* xviii. (1835) p. 180; *Hook. f. Fl. Brit. Ind.* vii. p. 61.

Thysanolæna acarifera, *Arn. et Nees, in Nov. Act. Nat. Cur.* xix. *Suppl.* i. (1843) p. 181; *Benth. Fl. Hongk.* p. 417; *Hack. in Bull. Herb. Boiss.* vii. (1889) p. 723.

Formosa: Bankinsing (*A. Henry*, 407!); Yunnan: Red River Valley (*A. Henry*, 10950!); Hongkong (*Hance*, 1187! *Faurie*, 15862!). Mus. Brit.; Herb. Kew.

Northern India, Malaya, Mauritius.

1. **Thuarea sarmentosa,** *Pers. Syn.* i. p. 110; *Munro, in Seemann, Bot. Voy. 'Herald,'* p. 423; *Benth. Fl. Hongk.* p. 415; *Hook. f. Fl. Brit. Ind.* vii. p. 91.

Ornithocephalochloa arenicola, *Kurz, in Journ. Bot.* xiii. (1875) p. 332, t. 171.

Hongkong (*Hance*, 10230!); South China Sea: Pulo Redang (*Jensen*!), Pratas Island (*Wilford*, 451!). Mus. Brit.; Herb. Kew.

Ceylon, Cochin China, Malaya, North Australia, Pacific Islands.

1. **Spinifex squarrosus,** *Linn. Mant.* p. 300; *Steud. Syn. Gram.* p. 113; *Benth. Fl. Hongk.* p. 415; *Hack. in Engl. Bot. Jahrb.* vi. (1884) p. 50; *A. Henry, in Trans. Asiat. Soc. Jap.* xxiv. *Suppl.* (1896) p. 107; *Hook. f. Fl. Brit. Ind.* vii. p. 63.

Formosa (*Oldham*, 606!), Tamsui sand-hills (*Hancock*, 18!); Kwangtung: Macao (*Abel*! *Vachell*! *Tate*! *Hance*, 865 in part!); Hongkong: sandy sea-shore (*Hance*, 865 in part! *Forbes*, 610!). Mus. Brit.; Herb. Kew.

India, Ceylon, Malaya.

1. **Phænosperma globosa,** *Munro, ex Benth. in Journ. Linn. Soc., Bot.* xix. (1881) p. 59; *Franchet, Pl. David.* i. p. 326; *Pilger, in Engl. Bot. Jahrb.* xxix. (1900) p. 222.

China: without locality (*Faber*!); Kiangsi: Kiukiang (*Shearer*!); Hupeh: Ichang (*A. Henry*, 626, 3966, 3968!), Western Hupeh (*Wilson*, 530!), Nanto and mountains to north (*A. Henry*, 1943, 2073!), Patung (*A. Henry*, 4743!); Szechuen: near Tachienlu (*Pratt*, 426!) (*A. Henry*, 8911!); Yunnan: Mengtze, wooded cliffs, 6000 ft. (*A. Henry*, 11299!). Mus. Brit.; Herb. Kew.

1. **Arundinella anomala,** *Steud. Syn. Gram.* p. 116; *Debeaux, Fl. Tchéfou,* p. 156; *Franchet, in Mém. Soc. Sci. Nat. Cherb.* xxiv. (1884) p. 267, et *Pl. David.* i. p. 325; *Palibin, in Act. Hort. Petrop.* xix. (1901) p. 127; *Pilger, in Engl. Jahrb.* xxix. (1900) p. 222; *Miq. in Ann. Mus. Bot. Lugd.-Bat.* ii. p. 276; *Franch. et Savat. Enum. Pl. Jap.* ii. p. 165; *Hack. in Bull. Herb. Boiss.* vii. (1899) p. 643, et sér. 2, iii. (1903) p. 501.

Panicum mandshuricum, *Maxim. Prim. Fl. Amur.* p. 328; *Hance, in Journ. Bot.* vii. (1869) p. 41; *Baker & Moore, in Journ. Linn. Soc., Bot.* xvii. (1879) p. 338.

Panicum Williamsii, *Hance, in Ann. Sci. Nat.* sér. 5, v. (1866) p. 250.

Chalynochlamis anomala, *Franchet,* apud *Debeaux, Fl. Tientsin,* p. 71.

CHIHLI: Peking (*Bushell*! *Williams,* in herb. *Hance,* 11458 in part! 12864! *Bretschneider,* 828–829!), Jehol (*David,* 1901!); SHINGKING (*Ross,* 81, 469!), Kaichow to Kinchow (*Ross,* 255, 275, 290!), Kaichow Hills (*Ross,* 320!), Changpeishan (*James*!); SHANTUNG (*Maingay,* 74!), Chefoo (*Forbes*!); KIANGSU: Kianang (*Staunton*!); CHEKIANG: Ningpo Mts. to Chefoo Mts. (*Faber,* 297!), Ningpo (*Swinhoe,* in herb. *Hance,* 11458 in part!); KIANGSI: Kiukiang (*Shearer*!); HUPEH: Patung (*A. Henry,* 4845!), Ichang (*A. Henry,* 431, 2265, 2272, 4284, 4290!); SHENSI: Kusan (*Hugh*!), Kisanshien (*Hugh*!); ? HUNAN: Sungatechi (*Maack*!); KWANGTUNG: Canton (*Sampson,* in herb. *Hance,* 12928!); COREA: Soul (*Sontag*!). Mus. Brit.; Herb. Kew.

Japan, North Asia.

Var. **depauperata,** *Rendle.*

Herba quam in specie minor, culmis gracilibus, 16 poll. vel brevioribus. *Folia* brevia, angusta, convoluta, demum setacea, 1½–2½ poll. longa, ad ½ lin. diametro. *Panicula* angusta, 3–3½ poll. longa, 3–6 lin. lata; ramis paucis, brevibus, appressis, infimis ad 1 poll. longis.

HUPEH: Ichang (*A. Henry,* 1059, 4290!). Herb. Kew.

2. **Arundinella nepalensis,** *Trin. Gram. Pan.* p. 62, *et Sp. Gram. Ic.* t. 268; *Benth. Fl. Hongk.* p. 416.

Arundinella miliacea, *Nees, in Hook. Kew Journ.* ii. (1850) p. 102; *Munro, in Seemann, Bot. Voy. 'Herald,'* p. 423.

? Arundinella glabra, *Nees, in Hook. & Arn. Bot. Beechey's Voy.* p. 237 (plant not seen).

HUPEH: Ichang (*A. Henry*, 2264!); YUNNAN: Mengtze, 4600 ft. (*A. Henry*, 9139!); KWANGTUNG (*Ford*, 214!), Canton (*Sampson*, 1049!); HONGKONG (*Hance*, 8111 in part! *Faurie*, 15852!); LAPPAS ISLAND (no collector). Mus. Brit.; Herb. Kew.

India, Malaya, Australia.

Sir Joseph Hooker (Fl. Brit. Ind. vii. p. 73) unites this species with *A. brasiliensis*, Raddi. The spikelets in Raddi's type at the British Museum are, however, conspicuously smaller than anything I have seen in the Asiatic plants, and I prefer to regard the latter as forming a distinct species.

3. **Arundinella setosa**, *Trin. Gram. Pan.* p. 63; *Benth. Fl. Hongk.* p. 416; *Hook. f. Fl. Brit. Ind.* vii. p. 70; *Hack. in Bull. Herb. Boiss.* vii. (1899) p. 723.

Arundinella stricta, *Nees, in Hook. Kew Journ.* ii. (1850) p. 102.

Danthonia neuroelytrum, *Steud. Syn. Gram.* p. 245.

Milium cimicinoides, *Roxb. ex Hook. f. Fl. Brit. Ind.* vii. p. 70.

CHINA: without locality (*Fortune*, 5!); FOKIEN: Amoy (*Hance*, 1282 in part!); FORMOSA: Takow (*A. Henry*, 771!), Apes' Hill (*A. Henry*, 1033, 1107!); YUNNAN: Mengtze (*A. Henry*, 10518, 10518 A!), Szemao Mts., 5000 ft. (*A. Henry*, 13193!); KWANGTUNG (*Ford*, 211!), Canton (*Sampson*, 1167!); HONGKONG (*Hance*, 1282 in part! *Lamont*! *Wright*!). Mus. Brit.; Herb. Kew.

India, Ceylon, Philippines.

4. **Arundinella sinensis**, *Rendle*, n. sp.

Herba perennis, rhizomate duro, 1½–2 lin. crasso, culmis simplicibus, 2-pedalibus, nodis glabris, internodiis 6, inferioribus 1–1¼ lin. crassis. *Foliorum* vaginæ cylindricæ, internodis haud æquantes, margine et ore pilosæ, aliter plus minus scabride-pilosæ vel superiores glabrescentes; ligula e pilis 1 lin. longis constituta; lamina linearis, basi paullo angustata et superne in apice acuto gradatim attenuata, rigidula, cum faciebus striatis et margine scabrida, 6–14 poll. longa, 2–4½ lin. lata. *Panicula*, basi nondum evoluta, pedalis, rhacheos scabride-angulati internodiis inferioribus circa 1 poll. longis, ramis ad nodum quemque 1–3, fastigiatis, ad 8 poll. longis, complanatis, scabridis, laxe spiculatis; spiculæ 3 lin. longæ, anguste lanceolatæ, acuminatæ, glabræ, alter pedicellum scabridulum apice sparse barbatum dimidia, alter eo plus triplo excedens. *Gluma* i. lanceolata acuminata, cum nervis tribus validis, quorum mediano scabridulo, et tribus incompletis instructa, 3 lin. longa; gl. ii. primo æquans et ei similis, 5-nervis; gl. iii. ovata, 3-nervis cum nervulis 4 debilus superadditis, $1\frac{2}{5}$ lin. longa, florem ♂ celans; gl. iv. oblonga, 1 lin. longa, apice in setam debilem imperfectam 3 lin. longam cum setulis lateralibus duabus prolongata.

KWANGTUNG (*Ford*, 201, 212 !), Lofaushan (*Ford*, 125 !). Herb. Kew.

Approaches *A. setosa*, from which it is distinguished by its larger panicle and subequal multinerved barren glumes.

Tribe ZOYSIEÆ.

1. **Tragus racemosus**, *Scop. Introd.* p. 73; *Franchet, Pl. David.* i. p. 327; *Hook. f. Fl. Brit. Ind.* vii. p. 97.

Tragus tcheliensis, *Debeaux, Fl. Tientsin*, p. 48.

Lappago racemosa, *Honck. Syn.* i. p. 440; *Trin. in Bunge, Enum. Pl. Chin. Bor.* p. 70.

Cenchrus racemosus, *Linn. Sp. Pl.* p. 1049; *Staunton, Embass. Chin.* ii. p. 346.

CHIHLI: Pechili (*Staunton* !), Jehol (*David*, 2069 !), Peking (*Williams*, in herb. *Hance*, 10522 ! *Bushell* !); SHENSI: Kaolinsien (*Hugh* !). Mus. Brit.; Herb. Kew.

Warmer parts of both hemispheres.

1. **Perotis latifolia**, *Ait. Hort. Kew.* i. p. 85; *Nees, in Nov. Act. Nat. Cur.* xix. *Suppl.* i. (1843) p. 202; *Hook. f. Fl. Brit. Ind.* vii. p. 98; *A. Henry, in Trans. Asiat. Soc. Jap.* xxiv. *Suppl.* (1896) p. 107.

Perotis longiflora, *Nees, in Hook. & Arn. Bot. Beechey's Voy.* p. 247; *Hance, in Journ. Linn. Soc., Bot.* xiii. (1873) p. 133.

Perotis patula, *Nees, ex Steud. Nom.* ed. 2, ii. p. 306.

Saccharum spicatum, *Linn. Sp. Pl.* p. 54.

Alopecurus hordeiformis, *Lour. Fl. Cochinch.* p. 60.

FOKIEN: Amoy (*Hance*, 1384 in part !); FORMOSA: Takow spit (*A. Henry*, 1043, 1110 !); KWANGTUNG: Macao (*Hance*, 1384 in part ! *Vachell*, 38 !), Pakhoi (*Playfair*, 151 !); HONGKONG (*Hance*, 1384 in part ! *Wright* !); CHINA: without locality (*Fortune*, 89 ! *Meyen* !). Mus. Brit.; Herb. Kew.

Tropical Asia and Africa.

1. **Zoysia pungens**, *Willd. in Ges. Naturf. Fr. N. Schrift.* iii. (1801) p. 441; *Franchet, in Mém. Soc. Sci. Nat. Cherbourg*, xxiv. (1884) p. 271; *A. Henry, in Trans. Asiat. Soc. Jap.* xxiv. *Suppl.* (1896) p. 107; *Palibin, in Act. Hort. Petrop.* xix. (1901) p. 128; *Hook. f. Fl. Brit. Ind.* vii. p. 99.

SHINGKING: Talienwan (*Birnie*!); SHANTUNG: Chefoo (*Perry*!); FORMOSA: Takow (*A. Henry*, 1798, 1798 A, 1906!); COREA: East (*Perry*!), Port Chusan (*Wilford*, 942!); COREAN ARCHIPELAGO (*Oldham*, 951, 1015!); LUCHU ARCHIPELAGO (*Wright*!). Mus. Brit.; Herb. Kew.

Tropical Asia, Australia, Mascarene Islands.

2. **Zoysia sinica**, *Hance, in Journ. Bot.* vii. (1869) p. 168, *et in Journ. Linn. Soc., Bot.* xiii. (1873) p. 134.

Zoysia pungens, *Munro, in Seemann, Bot. Voy. 'Herald,'* p. 424, non *Willd.*; *Benth. Fl. Hongk.* p. 418.

Zoysia macrostachya, *Franch. et Savat. Enum. Pl. Jap.* ii. p. 608; *Hack. in Bull. Herb. Boiss.* vii. (1899) p. 642.

KIANGSI (*Faber*!); FOKIEN: Amoy (*Sampson*, in herb. *Hance*, 10155 in part! *De Grijs*, ibid.!); KWANGTUNG: Pakhoi (*Playfair*, 142!); HONGKONG (*Hance*, 10155 in part!). Mus. Brit.; Herb. Kew.

Japan.

Tribe ORYZEÆ.

1. **Oryza sativa**, *Linn. Sp. Pl.* p. 333; *Steud. Syn. Gram.* p. 3; *Osbeck, Resa*, p. 218; *Thunb. Fl. Japon.* p. 147; *Lour. Fl. Cochinch.* p. 214; *Franch. et Savat. Enum. Pl. Japon.* ii. p. 155; *Debeaux, Fl. Shanghai*, p. 67; *Franchet, in Mém. Soc. Sci. Nat. Cherbourg*, xxiv. (1884) p. 266, *et Pl. David.* i. p. 324; *Hack. Bull. Herb. Boiss.* vii. (1899) p. 645; *Palibin, in Act. Hort. Petrop.* xix. (1901) p. 128; *A. Henry, in Trans. Asiat. Soc. Jap.* xxiv. *Suppl.* (1896) p. 107.

Oryza communissima, O. præcox, O. montana, O. glutinosa, *Lour. Fl. Cochinch.* p. 215.

NORTH CHINA: without locality, cult. (*Daniell*!); SHANTUNG (*Maingay*, 68!); FOKIEN: Amoy (*Hance*!); FORMOSA (*A. Henry*); HONGKONG: cult. (*Hance*, 706! *Urquhart*, 243!). Mus. Brit.; Herb. Kew.

Tropical Asia.

1. **Zizania aquatica**, *Linn. Sp. Pl.* p. 991 (excluding reference to *Sloane, Jam. & Hist.*); *A. Henry, in Trans. Asiat. Soc. Jap.* xxiv. *Suppl.* (1896) p. 107; *Hack. in Bull. Herb. Boiss.* sér. 2, iii. (1903) p. 502.

Hydropyrum latifolium, *Griseb. in Ledeb. Fl. Ross.* iv. p. 466; *Turcz. in Bull. Soc. Nat. Mosc.* xxix. (1856) pt. 1, p. 2; *Maxim. Prim. Fl. Amur.* p. 479; *Franch. et Savat. Enum. Pl. Jap.* ii. p. 156; *Hack. Bull. Herb. Boiss.* vii. (1899) p. 646.

CHIHLI: Peking (*Swinhoe*, in herb. *Hance*, 6496 in part!); KWANGTUNG: Canton, cult. (*Hance*, 6496 in part!). Mus. Brit.

Japan, Tonkin; Eastern North America.

1. **Leersia hexandra**, *Sw. Prodr.* p. 21; *Hook. f. Fl. Brit. Ind.* vii. p. 94; *A. Henry, in Trans. Asiat. Soc. Jap.* xxiv. *Suppl.* (1896) p. 107; *Hack. in Bull. Herb. Boiss.* vii. (1899) pp. 646, 723; *Hance, in Journ. Linn. Soc., Bot.* xiii. (1873) p. 135.

KIANGSU: Kianang (*Staunton*!); FOKIEN: Amoy (*Hance*, 1383!); FORMOSA: Takow (*A. Henry*, 1170, 2034!); HUPEH: Ichang (*A Henry*, 4249, 2783!); KWANGTUNG: Canton, edges of rice-fields (*Sampson*, 312!). Mus. Brit.; Herb. Kew.

Widely distributed in the tropics.

Tribe MAYDEÆ.

1. **Coix Lachryma-Jobi**, *Linn. Sp. Pl.* p. 972; *Hook. f. Fl. Brit. Ind.* vii. p. 100.

Coix agrestis, *Lour. Fl. Cochinch.* p. 551; *Miq. in Ann. Mus. Bot. Lugd.-Bat.* ii. p. 273; *Hack. in Bull. Herb. Boiss.* vii. (1899) p. 638.

Coix chinensis, *Tod. Ind. Sem. Hort. Bot. Panorm.* 1861, p. 5, *et Fl. Sic. Exsicc.* no. 918.

Coix Lachryma, *Linn. Syst.* ed. 10, p. 1261; *Franchet, in Mém. Soc. Sci. Nat. Cherb.* xxiv. (1884) p. 266; *A. Henry, in Trans. Asiat. Soc. Jap.* xxiv. *Suppl.* (1896) p. 107; *Lour. Fl. Cochinch.* p. 551; *Franch. et Savat. Enum. Pl. Jap.* ii. p. 156; *Thunb. Fl. Jap.* p. 37; *Hack. in Bull. Herb. Boiss.* vii. (1899) p. 638.

CHIHLI: Peking (*Bretschneider*, 798!); KIANGSI: Kiukiang (*Reid*, 45!); FORMOSA: Bankinsing (*A. Henry*, 51!); HUPEH: Nanto and mountains to north (*A. Henry*, 2635 A!); YUNNAN (*A. Henry*, 10137!); KWANGTUNG (*Ford*, 195!), mainland opposite Hongkong (*Harland*, in herb. *Hance*, 402 !), Macao (*Callery*, 496 !). Mus. Brit.; Herb. Kew.

Warmer parts of the world.

1. **Zea Mays**, *Linn. Sp. Pl.* p. 971; *Debeaux, Fl. Tientsin*, p. 46; *Hook. & Arn. Bot. Beechey's Voy.* p. 347; *Palibin, in Act. Hort. Petrop.* xix. (1901) p. 129; *Lour. Fl. Cochinch.* p. 550; *Thunb. Fl. Jap.* p. 37; *Franch. et Savat. Enum. Pl. Jap.* ii. p. 156; *A. Henry, in Trans. Asiat. Soc. Jap.* xxiv. *Suppl.* (1896) p. 107; *Hook. f. Fl. Brit. Ind.* vii. p. 102.

CHEKIANG: Ningpo Mts. (*Faber*, 299 !); SZECHUEN (*Faber*, 1174 !); HONGKONG: cultivated (*Hance*, 1333 !). Mus. Brit.; Herb. Kew.

Widely cultivated.

Tribe ANDROPOGONEÆ.

1. **Imperata arundinacea**, *Cyrill.*, var. **Koenigii**, *Hack. Mon. Androp.* p. 94, *et in Engl. Bot. Jahrb.* vi. (1884) p. 50, *et in Bull. Herb. Boiss.* vii. (1899) p. 639, et sér. 2, iii. (1903) p. 501.

Imperata arundinacea, *Cyrill. Pl. Rar.* ii. p. 27, t. 11, in part; *Trin. in Bunge, Enum. Pl. Chin. Bor.* p. 72; *Maxim. Prim. Fl. Amur.* p. 479; *Franchet, Pl. David.* i. p. 327; *A. Henry, in Trans. Asiat. Soc. Japan*, xxiv. *Suppl.* (1896) p. 107; *Pilger, in Engl. Bot. Jahrb.* xxix. (1900) p. 221; *Palibin, in Act. Hort. Petrop.* xix. (1901) p. 129; *Franch. et Savat. Enum. Pl. Jap.* ii. p. 188; *Hook. f. Fl. Brit. Ind.* vii. p. 106.

Imperata arundinacea, var. pedicellata, *Debeaux, Fl. Tchéfou*, p. 165; *Franchet, in Mém. Soc. Sci. Nat. Cherbourg*, xxiv. (1884) p. 272.

Imperata Koenigii, *Beauv. Agrost.* p. 165; *Nees, in Hook. & Arn. Bot. Beechey's Voy.* pp. 240, 273, *et in Nov. Act. Nat. Cur.* xix. *Suppl.* i. (1843) p. 183.

Imperata pedicellata, *Steud. in Flora*, xxix. (1846) p. 22.

Saccharum spicatum, *Thunb. Fl. Jap.* p. 42; *Lour. Fl. Cochinch.* p. 53.

CHIHLI: Peking (*Bretschneider*, 824!); EAST COAST (*Home*!); SHANTUNG: Chefoo (*Carmichael*, in herb. *Forbes* !); KIANGSI: Shanghai (*Maingay*, 374, 564! *Forbes* !); FORMOSA (*Oldham*, 619 !), Takow (*Playfair*, 100 !), South Cape (*Schmürer*, in coll. *A. Henry*, 955 !); HUPEH: Ichang (*A. Henry*, 1136 !); SHENSI: Kusan (*Hugh* !), Kisansien (*Hugh* !); SZECHUEN: Chungching (*Bourne*, 116 !); YUNNAN: Mengtze (*A. Henry*, 7506 !); KWANGTUNG: Ookaisa (*Tate* !); HONGKONG (*Hance*, 577 ! *Lamont* !

Wilford, 244!); COREA: Chemulpo (*Carles*, 43! *Perry*!); LUCHU ARCHIPELAGO (*Döderlein*, fide Hackel). Mus. Brit.; Herb. Kew.

The species is generally distributed throughout the warmer parts of the earth.

1. **Miscanthus japonicus**, *Anderss. in Öfvers. Vetensk.-Akad. Förhandl.* xii. (1855) p. 166; *Hack. Mon. Androp.* p. 107, *et in Bull. Herb. Boiss.* vii. (1899) p. 639; *A. Henry, in Trans. Asiat. Soc. Jap.* xxiv. *Suppl.* (1896) p. 107; *Pilger, in Engl. Bot. Jahrb.* xxix. (1900) p. 221.

Saccharum polydactylon, var. α, *Thunb. Fl. Jap.* p. 43.

Saccharum japonicum, *Thunb. in Trans. Linn. Soc.* ii. (1794) p. 328, in part.

Eulalia densa, *Munro, in Seem. Bot. Voy. 'Herald,'* p. 424.

KIANGSU: Kianang (*Staunton*!), Shanghai (*Maingay*, 575!); KIANGSI: Kiukiang (*Forbes*, 74!); FORMOSA: Takow (*A. Henry*, 1823, 1823 A, 1690, 1692, 1693!), Apes' Hill (*A. Henry*, 1689, 1691!), Kelung (*Ford*, 68!), Tamsui (*Walters*, 45!), South Cape (*A. Henry*, 1332!); KWANGTUNG: Whampoa (*Hance*, 485 in part!); HONGKONG (*Hance*, 485 in part! 557! *Champion*! *Ford*, 596!). Mus. Brit; Herb. Kew.

Japan, Malaya, and Pacific Islands.

It seems impossible to distinguish between extreme forms of this species and of *M. sinensis*, Anderss.

2. **Miscanthus nepalensis**, *Hack. Mon. Androp.* p. 104; *Pilger, in Engl. Bot. Jahrb.* xxix. (1900) p. 221; *Hook. f. Fl. Brit. Ind.* vii. p. 107.

SZECHUEN: Mt. Omei, 4200 feet (*Faber*, 1152!), Moupin (*David*!); LAPPAS ISLAND (herb. *Munro*!). Herb. Kew.

Mountains of Northern India.

3. **Miscanthus sacchariflorus**, *Benth. & Hook. f. Gen. Pl.* iii. 2, p. 1125; *Hack. Mon. Androp.* p. 102, *et in Bull. Herb. Boiss.* vii. (1899) p. 639; *Franchet, Pl. David.* i. p. 327; *Komarow, in Act. Hort. Petrop.* xx. (1901) p. 243.

Imperata sacchariflora, *Maxim. Prim. Fl. Amur.* p. 331.

? Imperata eulalioides, *Miq. in Ann. Mus. Bot. Lugd.-Bat.* ii. p. 289; *Franch. et Savat. Enum. Pl. Jap.* ii. p. 188.

CHIHLI: Peking (*Williams*, in herb. *Hance*, 11451! *Bretschneider*, 823!), Jehol (*David*!); KIANGSU: Shanghai (*Maingay*, 577!), Kianang (*Staunton*!); HUPEH: Patung (*A. Henry*, 5123!), Changyang (*A. Henry*, 7507!); SHENSI: Kaolinsien (*Hugh*!), Mt. Kiansan, Husienscien (*Hugh*!), Mt. Laoysan, Tciuzscien (*Hugh*!). Mus. Brit.; Herb. Kew.

North Asia, Japan.

4. **Miscanthus sinensis**, *Anderss. in Öfvers. Vetensk.-Akad. Förhandl.* xii. (1855) p. 166; *Hack. Mon. Androp.* p. 105, *et in Bull. Herb. Boiss.* vii. (1889) p. 639, et sér. 2, iii. (1903) p. 501.

Saccharum polydactylon, var. β, *Thunb. Fl. Jap.* p. 43.

Saccharum japonicum, *Thunb. in Trans. Linn. Soc.* ii. (1794) p. 328, in part.

Erianthus japonicus, *Beauv. Agrost.* p. 14, in part; *Nees, in Hook. & Arn. Bot. Beechey's Voy.* p. 242, *et in Nov. Act. Nat. Cur.* xix. *Suppl.* i. (1843) p. 184.

Eulalia densa, *Baker & Moore, in Journ. Linn. Soc., Bot.* xvii. (1879) p. 388, non *Munro.*

Eulalia japonica, *Trin. in Mém. Ac. Sci. Pétersb.* sér. 6, ii. p. 333, in part; *Franch. et Savat. Enum. Pl. Jap.* ii. p. 189; *Franchet, in Mém. Soc. Sci. Nat. Cherbourg*, xxiv. (1884) p. 272.

Ripidium japonicum, *Trin. Fund. Agrost.* p. 169, in part.

SHINGKING (*Ross*, 44!); FORMOSA: Takow (*A. Henry*, 1173, 1173 A, 1175, 1185!); HUPEH; Patung (*A. Henry*, 5065!), Ichang (*A. Henry*, 93!); SHENSI: Kusan (*Hugh*!), Mt. Kiansan, Husienscien (*Hugh*!); SZECHUEN: Tachou (*Rockhill*!); ? YUNNAN: Mengtze (*A. Henry*, 10014!); KWANGTUNG: Macao, Canton (*Sampson*, 973!); HONGKONG (*Lamont*! *Reeves*! *Urquhart*, 251! *Hind*!); COREA (*Perry*!); LUCHU ARCHIPELAGO (*Wright*!); CHINA: without locality (*Macartney*!). Mus. Brit.; Herb. Kew.

Japan, Tonkin, Celebes, Borneo, Philippines.

Var. **purpurascens**, *Rendle.*

Miscanthus purpurascens, *Anderss. l. c.* p. 167; *Hack. Mon. Androp.* p. 106; *Palibin, in Act. Hort. Petrop.* xix. (1901) p. 129; *Komarow, ibid.* xx. (1901) p. 244.

SHANTUNG (*Maingay*, 77!), Chefoo (*Forbes*!). Herb. Kew.

Japan.

I regard this merely as a variety of *M. sinensis.* Hackel himself says (*l. c.* p. 107): "cui fortasse melius subspeciei numero subjiciendus."

1. **Saccharum arundinaceum**, *Retz. Obs.* iv. p. 14; *Hack. Monogr. Androp.* p. 117.

Saccharum procerum, *Roxb. Fl. Ind.* i. p. 243; *Hance, in Journ. Linn. Soc., Bot.* xiii. (1873) p. 134.

Saccharum Sara, *Roxb. l. c.* p. 244; *Hook. & Arn. in Bot. Beechey's Voy.* p. 240.

CHEKIANG (*Staunton*!); FOKIEN: Amoy (*Hance*, 1406 in part!); HUPEH (*A. Henry*, 4227!); KWANGTUNG (*Staunton*!), Whampoa (*Hance*, 1406 in part!), Pakhoi (*Playfair*, 160!); CHINA: without locality (*Fortune*, 9!). Mus. Brit.; Herb. Kew.

India, Ceylon, China.

2. **Saccharum Narenga**, *Ham. in Wall. List*, no. 8856; *Hack. Mon. Androp.* p. 119; *Pilger, in Engl. Bot. Jahrb.* xxix. (1900) p. 222; *Hook. f. Fl. Brit. Ind.* vii. p. 120.

Saccharum porphyrocomum, *Hack. Mon. Androp.* p. 120.

Eriochrysis Narenga, *Nees, ex Steud. Syn. Gram.* p. 411.

Eriochrysis porphyrocoma, *Hance, in Journ. Bot.* xiv. (1876) p. 294.

FORMOSA: Takow Plain and Lake Hill (*A. Henry*, 2036!); HUPEH: Ichang (*A. Henry*, 154!); KWANGTUNG: Canton (*Staunton*! *Lamont*! *Nevin*, in herb. *Hance*, 19285 in part!), by River Lienchau (*Galbraith*, in herb. *Hance*, 19285 in part!). Mus. Brit.; Herb. Kew.

India, Burma.

3. **Saccharum officinarum**, *Linn. Sp. Pl.* p. 54; *Hack. Monogr. Androp.* p. 111; *Benth. Fl. Hongk.* p. 419; *Lour. Fl. Cochinch.* p. 52; *Thunb. Fl. Japon.* p. 42; *Henry, in Trans. Asiat. Soc. Jap.* xxiv. *Suppl.* (1896) p. 107.

Saccharum sinense, *Roxb. Fl. Ind.* i. p. 244; *Nees, in Hook. & Arn. Bot. Beechey's Voy.* p. 241.

FORMOSA: Bankinsing Plain, "the variety which is generally cultivated in South Formosa" (*A. Henry*, 1688!); KWANGTUNG: Canton (*Macartney*!), Whampoa (*Hance*, 6556!); HONGKONG (*Harland*, 683!). Mus. Brit.; Herb. Kew.

Widely cultivated in the tropics.

4. **Saccharum spontaneum**, *Linn. Mant.* ii. p. 183; *Lour. Fl. Cochinch.* p. 52; *Hack. in Bull. Herb. Boiss.* vii. (1899) p. 723; *Pilger, in Engl. Bot. Jahrb.* xxix. (1900) p. 222.

Subsp. α. **indicum**, *Hack. Mon. Androp.* p. 114.

FORMOSA: Takow (*A. Henry*, 1077, 1077 A!); HUPEH: Ichang (*A. Henry*, 34, 2266, 4222!); KWANGTUNG: Canton (*Galbraith*, in herb. *Hance*, 19304! *Lamont*!); CHINA: without locality (*Fortune*, 6!). Mus. Brit.; Herb. Kew.

India, Central Asia, Malaya.

1. **Erianthus formosanus,** *Stapf, in Kew Bull.* 1898, p. 228.

Erianthus fastigiatus, *A. Henry, in Trans. Asiat. Soc. Jap.* xxiv. *Suppl.* (1896) p. 107.

FORMOSA: Apes' Hill (*Playfair*, 314!). Herb. Kew.

2. **Erianthus fulvus,** *Nees, ex Steud. Syn. Gram.* p. 409; *Hack. Mon. Androp.* p. 147; *Hook. f. Fl. Brit. Ind.* vii. p. 123.

Saccharum rufipilum, *Steud. l. c.*

HUPEH: Patung (*A. Henry*, 5115!); SHENSI: Paokisan, near Mt. Miaowansan (*Hugh*!); YUNNAN: Mengtze, grass mountains, 4600–6000 feet (*A. Henry*, 9818, 9818 A, 10325!). Mus. Brit.; Herb. Kew.

Hills of Northern India.

3. **Erianthus Hookeri,** *Hack. Mon. Androp.* p. 142; *Hook. f. Fl. Brit. Ind.* vii. p. 125.

YUNNAN: without locality (*Anderson*!), Mengtze, 4600 feet (*A. Henry*, 9660!). Herb. Kew.

Himalayas.

4. **Erianthus pollinioides,** *Rendle*, n. sp.

Culmi erecti, arundinacei, 4½ ped. alti, basibus 2 lin. crassi, teretes, glabri, simplices, foliosi, basibus cum vaginis fibrosis marcidis vestiti; internodia 7. *Foliorum* vaginæ glabræ, stramineæ, suprema excepta internodia excedentes; ligula brevis, membranacea, vix semilinea longa, pilosa; lamina elongata, anguste linearis, ad apicem acutum attenuata, rigidula, usque ad 3 ped. longa, medio 2½ lin. lata, cum nervo mediano valido albido lineata. *Panicula* eximie purpurascens, subcorymbosa, 8 poll. longa, superne 5 poll. lata; rhachis communis 4 poll. longa; racemi ad 30, 5 poll. longi vel breviores, sessiles, erecto-patuli, graciles, dense et longe purpureo-pilosi; articuli pedicellis æquantes sed magis robusti, $\frac{1}{10}$ poll. longi, velut pedicellis cum pilis purpureis ad 3 lin. longis dense vestiti. *Spicula sessilis* uniflora, lanceolata, læte brunnea, 1½ lin. longa; gluma i. cum callo brevi ($\frac{1}{8}$ lin.), lanceolata, apice anguste truncata, cum nervis utrinque marginalibus binis, dorso pilis purpureis plus duplo longioribus

vestita; gl. ii. primæ subæquans sed paullo angustior et superne magis membranacea, cum carina et nervis lateralibus duobus; gl. iii. paullo brevior, anguste lanceolata, hyalina, supra medium ciliata cum marginibus involutis, vacua; gl. iv. minor, $\frac{4}{5}$ lin. longa, lineari-oblonga, nervo excepto hyalina, apice integro, cum arista simplici, debili, $3\frac{1}{2}$ lin. longa, instructa. *Spicula pedicellata* sessili similis, vix $1\frac{1}{2}$ lin. longa.

FORMOSA: Takow (*A. Henry*, 1143!). Mus. Brit.; Herb. Kew.

A well-marked species near the Indian *E. fastigiatus*, but distinguished by its larger, gracefully spreading, purple-haired racemes, and the hairs on the spikelet more than twice as long as the glume.

1. **Spodiopogon cotulifer,** *Hack. Mon. Androp.* p. 187, *et in Bull. Herb. Boiss.* vii. (1899) p. 641, et sér. 2, iii. (1903) p. 501; *Hook. f. Fl. Brit. Ind.* vii. p. 108; *Palibin, in Act. Hort. Petrop.* xix. (1901) p. 129.

Andropogon cotuliferum, *Thunb. Fl. Jap.* p. 41.

Eccoilopus andropogonoides, *Steud. Syn. Gram.* p. 124.

Eulalia cotulifera, *Munro, ex Miq. Ann. Mus. Bot. Lugd.-Bat.* ii. p. 289; *Franch. et Savat. Enum. Pl. Jap.* ii. p. 189.

CHEKIANG: Ningpo Mountains (*Faber*, 3, 1734!); FORMOSA: Takow (*A. Henry*, 1045!), Apes' Hill (*Playfair*, 240, 309! *A. Henry*, 1022!), Bankinsing Mountains (*A. Henry*, 1558!); LUCHU ARCHIPELAGO (*Wright*!). Mus. Brit.; Herb. Kew.

Japan; Mountains of North India.

2. **Spodiopogon formosanus,** *Rendle*, n. sp.

Planta perennis; culmus erectus, subvalidus, subcompressus, in parte inferiore unilateraliter sulcatus, basi $1\frac{2}{3}$ lin. crassus. *Folii* vagina glabra, membranacea, ad internodium applicita; ligula brevis, pilosa; lamina anguste lanceolata, acuta, plana, glabra, 8 poll. longa, $\frac{1}{2}$ poll. lata. *Panicula* e vagina folii supremi breviter (c. 1 poll.) exserta, subovata, 7 poll. longa, ad 2 poll. lata; rhachis flexuosa; rami ad nodos fasciculati, flexuose ascendento-patuli, ad nodum infimum usque ad $3\frac{1}{2}$ poll. longi, in parte inferiore, interdum usque ad medium, nudi, superne breviter ramulosi et densius spiculiferi; spiculæ sæpissime pedicellatæ, pedicelli glabri, inæquales, quam spiculis sæpius breviores; spiculæ bilineales vel paullo longiores, lanceolatæ, sparsius pilosæ.

Gluma i. ovata, apice breviter mucronata, margine ciliata, 9-nervis, ad 2⅓ lin. longa; gl. ii. 7-nervis, primæ subæquilonga sed latior, marginibus subhyalinis involutis, apice mucronata; gl. iii. hyalina, enervis, late elliptica, superne rotundata et ciliolata, 1½ lin. longa, cum palea specie vacua subæquilonga sed angustiore; gl. iv. oblonga, hyalina, vix 2 lin. longa, apice bifida, arista breve imperfecta, ad 2½ lin. longa sed sæpe vix e spicula exserta; palea quam gluma paullo brevior florem ☿ celans; antheræ rubro-brunneæ, 1⅓ lin. longæ.

FORMOSA: planted by savages in mountains near Bankinsing, the grain good to eat (*A. Henry*, 76!). Herb. Kew.

Described from a single specimen which includes the base of the stem and the upper portion bearing a single leaf and the panicle. The plant is evidently closely allied to *S. sibiricus*, in some respects suggesting a cultivated form of that species. It differs in its more open panicle, the almost complete absence of sessile spikelets, the less hairy character of the spikelets, the almost complete disappearance of the awn on the fertile glume, and the shape of the glume of the empty (or perhaps male) floret.

3. **Spodiopogon sagittifolia**, *Rendle*, n. sp.

Planta perennis; culmus basi innovationibus obsessus, erectus, teres, glaberrimus, ad 3½-pedalis altus, basi vix 1 lin. diametro excedens, 3–4-nodus. *Foliorum* vaginæ glabræ, ore pilosæ, infima excepta internodiis breviores; ligula ad 3 lin. longa, scariosa, obtusa, vel apice fimbriata, dorso pilosa; lamina petiolata; petiolus tenuis, in facie superiore complanatus, in foliis inferioribus ad 5 poll. longus, in superioribus deminuens, in supremis pæne obsoletus, pilosulus vel glabrescens; lamina linearis, superne ad apicem acutum attenuata, basi angustata et sagittata, plana, in facie superiore glabra, inferiore pilosa ad 10 poll. longa et 4½ lin. lata. *Panicula* ovoidea, ad 4½ poll. longa, 2½ poll. lata, rhacheos nodi pilosuli, rami filiformes verticillati (interdum cum paucis interpositis), patuli, 1½ poll. longi vel breviores, apice clavati et spiculas binas gerentes; spiculæ 3 lin. longæ, conformes, altera sessilis, altera pedicellata; pedicellus filiformis, 2 lin. longus, marginibus purpureo-ciliatus. *Glumæ* i. et ii. æquales, dorso pilosæ, virides, membranaceæ, prima 10-nervis, anguste ovata, obtusa, 2¾ lin. longa; secunda primæ similis sed cum basi latiore, et 8-nervis, apice emarginata, margine ciliolata; gl. iii. oblonga, apice biloba, 1-nervis, hyalina, margine et in parte superiore dorsali ciliolata, vix $2\frac{1}{2}$ lin. longa, florem ♂ fovens; palea glumæ æqualis; gl. iv. fertilis, oblonga, basi angustata, valde bipartita, vix $2\frac{1}{2}$ lin. longa, segmentis tenuibus, linearibus, acutis, hyalinis, arista e sinu orta, perfecta, 10 lin. longa; palea ovata, $2\frac{1}{4}$ lin. longa; antheræ ut in flore masculo lineares sed paullo longiores ($2\frac{1}{4}$ lin.), lodiculæ oblique cuneatæ.

Yunnan: Mengtze, grass mountains, 5500 ft. (*A. Henry*, 10997!), wood, 4600 ft. (*A. Henry*, 11256!). Mus. Brit.; Herb. Kew.

A very striking species characterized by the reduction of the raceme to one pair of spikelets, and the petiolate sagittate leaves. In the reduction of the spikelets it resembles the Japanese *S. depauperatus*, Hack. (in Bull. Herb. Boiss. vii. p. 641), while in *S. albidus* the lamina has a well-marked petiole, and shows a tendency to become petiolate in *S. cotulifer*.

4. **Spodiopogon sibiricus**, *Trin. Fund. Agrost.* p. 192, *et in Bunge, Enum. Pl. Chin. Bor.* p. 73; *Hack. Mon. Androp.* p. 183, *et in Bull. Herb. Boiss.* vii. (1899) p. 641, et sér. 2, iii. (1903) p. 501; *Maxim. Prim. Fl. Amur.* p. 331; *Franchet, Pl. David.* i. p. 327, *et in Mém. Soc. Sci. Nat. Cherbourg*, xxiv. (1884) p. 272; *A. Henry, in Trans. Asiat. Soc. Jap.* xxiv. *Suppl.* (1896) p. 101; *Pilger, in Engl. Bot. Jahrb.* xxix. (1900) p. 222; *Komarow, in Act. Hort. Petrop.* xx. (1903) p. 245.

Andropogon sibiricus, *Steud. Syn. Gram.* p. 398.

Chihli: Peking (*Bushell*! *Williams & Bretschneider*, in herb. *Hance*, 11429!), Pohuashan (*Bretschneider*, in herb. *Forbes*!), mountains west of Peking (*Bretschneider*!), Jehol (*David*, 2056!); Shingking (*Ross*, 28!); Shantung: Chefoo (*Forbes*! *Maingay*, 81!); Hupeh (*A. Henry*, 6717, 6520!); Shensi: Mt. Kiansan, Huscenscien (*Hugh*!), Kusan, Kisanshien (*Hugh*!), Mt. Thuikiotsuen (*Hugh*!); Kwangtung (*Ford*, 196!), Taiwan (*Nevin*, in herb. *Hance*, 20156!). Mus. Brit.; Herb. Kew.

North Asia, Japan.

1. **Pollinia articulata**, *Trin. in Mém. Ac. Sci. Pétersb.* sér. 6, iv. (1836) p. 90; *Hack. Mon. Androp.* p. 153; *Hance, in Journ. Bot.* xviii. (1880) p. 302; *Hook. f. Fl. Brit. Ind.* vii. p. 109.

Fokien: Amoy (*Hance*, 1378 in part!); Kwangtung: Whampoa (*Hance*, 1378 in part!), Canton (*Sampson*, 478!). Mus. Brit.; Herb. Kew.

India, Malaya, Australia.

2. **Pollinia cantonensis,** *Rendle*, n. sp.

Culmi sejuncti, foliosi, ad 14 poll. longi, solum exstant, internodiis, ad 7, gracilibus, ad semilineam latis, levibus, nodis glabris, plus minus geniculatis. *Foliorum* vaginæ tenues, glabræ, ore sparse pilosulæ, quam internodia paullo breviores; ligula membranacea, breviter ciliata, vix linea longa; lamina anguste lanceolata, acuta, basi valde attenuata, 2–3 poll. longa, 2½–4 lin. lata, leviter pilosa, cum nervo mediano albo-lineato et utrinque nervis 3–4 percursa. *Inflorescentia* vix evoluta, racemi ad 4, rhacheos internodia circa ¼ poll. longa; articuli racemorum haud sulcati, quam spicula lanceolata ¼ breviores, in utraque margine pilis quam articuli ⅔ brevioribus instructi. *Spicula sessilis* biflora, 2½ lin. longa; gluma i. membranacea, vix acuta, in carinis et nervis 2 dorsalibus pilosa, dorso leviter sulcata, 2¼ lin. longa; gl. ii. primæ æquans, mutica; flos inferior masculus inter gl. primam paleamque (1¾ lin. longam) gl. iii. deficientis inclusus, antheris tribus 1⅓ lin. longis; gl. iv. ½ lin. longa, hyalina, oblonga, apice integra, cum arista debili geniculata 2 lin. longa, palea ovata vix ½ lineam excedens, antheræ tres, 1 lineam paullo excedentes. *Spicula pedicellata* sessili similis, pedicellus quam rhachis angustior et paullo brevior, similiter pilosus.

Kwangtung: Canton (*Sampson*, in herb. *Hance*, 14923 in part!). Mus. Brit.

A distinct species of the subgenus *Leptatherum*, perhaps nearest to *P. vagans*, Nees, from which it is distinguished by the membranous hairy outermost glume, and imperfectly shortly awned fertile glume of the spikelet.

Described from a few flowering culms mixed with *Pollinia imberbis* from Canton (*Sampson*, in herb. Hance).

3. **Pollinia ciliata,** *Trin. in Mém. Ac. Sci. Pétersb.* sér. 6, ii. (1832) p. 306; *Hack. Mon. Androp.* p. 176 (subsp. c. *Wallichiana*), *et in Bull. Herb. Boiss.* vii. (1899) p. 723; *Hook. f. Fl. Brit. Ind.* vii. p. 116; *Nees, in Nov. Act. Nat. Cur.* xix. *Suppl.* i. (1843) p. 186.

Pollinia tenuis, *Benth. in Fl. Hongk.* p. 421, non *Trin.*

Pollinia Wallichiana, *Nees, ex Steud. Syn. Gram.* p. 410.

FORMOSA: Takow (*A. Henry*, 1150!); KWANGTUNG: Whampoa (*Hance*, 5231 in part!); HONGKONG (*Hance*, 5231 in part! *Wilford*, 61!); LUCHU ARCHIPELAGO (*Wright*!). Mus. Brit.; Herb. Kew.

India, Malaya.

Var. **breviaristata**, *Rendle*, n. var. *Spicæ* numerosæ densæ; rhacheos internodia utrinque ciliata, pili $\frac{1}{3}$ internodii longitudine haud æquantes. *Glumæ* i. et ii. subobtusæ; gl. iv. parva, integra; arista 3 lin. longa, perfecta, columna ejus subulæ æquans.

CHINA: without locality (*Mulgrave*!); HUPEH: Ichang (*A. Henry*, 3133!); YUNNAN: Mengtze, 5000 ft. (*A. Henry*, 11412!). Mus. Brit.; Herb. Kew.

4. **Pollinia Cumingii**, *Nees, in Hook. Kew Journ.* ii. (1850) p. 98; *Hack. Mon. Androp.* p. 167 (excl. var. *fulva*); *Hook. f. Fl. Brit. Ind.* vii. p. 114.

CHINA: without locality (*Fortune*, 4!); FOKIEN: Amoy (*Hance*, 1390!). Mus. Brit.; Herb. Kew.

North India, Malaya.

[? **Pollinia glabrata**, *Trin.*, fide *A. Henry, in Trans. Asiat. Soc. Jap.* xxiv. *Suppl.* (1896) p. 108.

FORMOSA: Takow (*Playfair*, fide *A. Henry*).

P. glabrata is a plant from the Society Islands; there is no Formosan specimen either at the British Museum or Kew.]

5. **Pollinia imberbis**, *Nees*, var. **Willdenowiana**, *Hack. Mon. Androp.* p. 178; *Hook. f. Fl. Brit. Ind.* vii. p. 117.

Pollinia imberbis, *Nees, ex Steud. Syn. Gram.* p. 410 ampl., in part; *Hance, in Journ. Bot.* xvi. (1878) p. 233; *Komarow, in Act. Hort. Petrop.* xx. (1903) p. 249.

Pollinia japonica, *Franch. et Savat. Enum. Pl. Jap.* ii. p. 190, non *Miquel*.

KWANGTUNG: Canton (*Sampson*, in herb. *Hance*, 14923 in part!). Mus. Brit.; Herb. Kew.

Japan, North India, Java.

6. **Pollinia monantha**, *Nees, ex Steud. Syn. Gram.* p. 410; *Hack. Mon. Androp.* p. 174; *Hook. f. Fl. Brit. Ind.* vii. p. 116.

YUNNAN: Mengtze, 4500 ft. (*A. Henry*, 9210!). Herb. Kew.

North India, Burmah.

The Yunnan specimen shows a remarkable variation as regards glume iii. of the spikelet. It may be absent or minute (smaller than the fertile gl. iv.) or form an important 3-nerved structure reaching 1 line in length with a weak geniculate awn 1$\frac{2}{3}$ line long.

7. **Pollinia nuda**, *Trin. in Mém. Acad. Sci. Pétersb.* sér. 6, ii. (1832) p. 307; *Hack. Mon. Androp.* p. 178, *et in Bull. Herb. Boiss.* vii. (1899) p. 641; *Hook. f. Fl. Brit. Ind.* vii. p. 117.

Pollinia japonica, *Miq. in Ann. Mus. Bot. Lugd.-Bat.* ii. p. 290.

Leptatherum japonicum, *Franch. et Savat. Enum. Pl. Jap.* ii. p. 190.

CHINA: without locality (*Seemann*!); LUCHU ARCHIPELAGO (*Wright*!). Mus. Brit.; Herb. Kew.

Japan, North India; South Africa.

8. **Pollinia pallens**, *Hack. Mon. Androp.* p. 156; *Hook. f. Fl. Brit. Ind.* vii. p. 110.

YUNNAN: near Tapintze (*Delavay*, 1793, in herb. Paris. *fide* Hackel).

North India.

I have seen no specimen.

9. **Pollinia phæothrix**, *Hack. Mon. Androp.* p. 168; *Hook. f. Fl. Brit. Ind.* vii. p. 112.

HUPEH: Ichang (*A. Henry*, 289!). Herb. Kew.

South India.

10. **Pollinia quadrinervis**, *Hack. Mon. Androp.* p. 158, *et in Bull. Herb. Boiss.* vii. (1899) pp. 640, 721; *Palibin, in Act. Hort. Petrop.* xix. (1901) p. 130; *Pilger, in Engl. Bot. Jahrb.* xxix. (1900) p. 222; *Hook. f. Fl. Brit. Ind.* vii. p. 110.

Pollinia villosa, *Munro, in Benth. Fl. Hongk.* p. 420, non *Spreng.*

Pollinia villosa, *Munro*, var. chefuensis, *Franchet, in Mém. Soc. Sci. Nat. Cherbourg*, xxiv. (1884) p. 271. (Probably belongs here. I have not seen the plant, and the diagnosis is inadequate.)

Erianthus tristachyus, *Nees, in Hook. & Arn. Bot. Beechey's Voy.* p. 241, *et in Nov. Act. Nat. Cur.* xix. *Suppl.* i. (1843) p. 183.

FOKIEN: Amoy (*Hance*, 1381!); YUNNAN: Mengtze, grass mountains, 7000 ft. (*A. Henry*, 10052!); KWANGTUNG: Macao (*Vachell*, 351!); HONGKONG: Mount Victoria (*Lamont*!);

LUCHU ARCHIPELAGO (*Tashiro*, fide *Hackel*). Mus. Brit.; Herb. Kew.

Japan, North India.

Var. **latifolia**, *Rendle*, n. var. *Planta* quam in specie robustior, culmis quadripedalibus, ad 2½ lineas crassis prope basin. *Folia* lineari-lanceolata, rigidula, glabra, subtus pruinosa, in culmo 8–10 poll. longa, 6–7 lin. lata.

YUNNAN: Mengtze, grass mts., 6000 ft. (*A. Henry*, 10993!). Mus. Brit.; Herb. Kew.

11. **Pollinia speciosa**, *Hack. Mon. Androp.* p. 159; *Hook. f. Fl. Brit. Ind.* vii. p. 113.

Erianthus speciosus, *Debeaux, Fl. Tchéfou*, p. 166; *Franchet, in Mém. Soc. Sci. Nat. Cherbourg*, xxiv. (1884) p. 272.

HUPEH: Ichang (*A. Henry*, 2796, 4374!); KWANGTUNG: Canton (*Sampson*, 297!). Herb. Kew.

North India.

12. **Pollinia velutina**, *Hack. Mon. Androp.* p. 169; *Hook. f. Fl. Brit. Ind.* vii. p. 113.

HUPEH (*A. Henry*, 4374!), Ichang (*A. Henry*, 2796!). Mus. Brit.; Herb. Kew.

North India.

1. **Pogonatherum saccharoideum**, *Beauv. Agrost.* p. 176, t. xi. fig. 7; *Hook. f. Fl. Brit. Ind.* vii. p. 141; *Pilger, in Engl. Bot. Jahrb.* xxix. (1900) p. 222; *Hack. Mon. Androp.* p. 193 (var. α. genuinum).

Pogonatherum polystachum, *Rœm. et Sch. Syst. Veg.* ii. p. 497.

Saccharum paniceum, *Lam. Encycl. Méth.* i. p. 595, t. 40. fig. 3.

HUPEH: Ichang (*A. Henry*, 1142!), Patung (*A. Henry*, 574, 3487!); YUNNAN (*A. Henry*, 11695!), Mengtze, grass hills, 5000 feet (*A. Henry*, 10360!); KWANGSI: Lungchow, common on slopes of hills (*Morse*, 496!). Mus. Brit.; Herb. Kew.

India, Malaya.

Var. β. **monandrum**, *Hack. Mon. Androp.* p. 193, *et in Bull. Herb. Boiss.* vii. (1899) p. 641.

Pogonatherum crinitum, *Kunth, Enum.* i. p. 478; *Miq. in Ann. Mus.*

Bot. Lugd.-Bat. ii. p. 289; *Franch. et Savat. Enum. Pl. Jap.* ii. p. 189; *Hook. f. Fl. Brit. Ind.* vii. p. 141.

Andropogon crinitus, *Thunb. Fl. Jap.* p. 40, t. 7.

Homoplitis crinita, *Trin. Fund. Agrost.* p. 166.

Pogonopsis tenera, *Presl, Reliq. Hænk.* i. p. 333, t. 46.

Pogonatherum polystachyum, *Nees, in Hook. et Arn. Bot. Beechey's Voy.* p. 238, non *Rœm. et Sch.*

Pogonatherum refractum, *Nees, in Hook. et Arn. l. c.* p. 239, *et in Nov. Act. Nat. Cur.* xix. *Suppl.* i. (1843) p. 182; *Hook. et Arn. l. c.* p. 273.

Pogonatherum saccharoideum, *Beauv.*; *Benth. Fl. Hongk.* p. 421; *A. Henry, in Trans. Asiat. Soc. Jap.* xxiv. *Suppl.* (1896) p. 108.

CHINA: without locality (*Meyen*!); FORMOSA (*Oldham*, 621! *Campbell*! *Playfair*, 250!), Bankinsing (*A. Henry*, 382!), Takow, on rock in streamlet (*A. Henry*, 762!); SZECHUEN (*Faber*, 1180!), Min River (*Faber*, 1155!); KWANGTUNG: Canton (*Lamont*!), Macao (*Buchanan*!); HONGKONG (*Hance*, 1033! *Wright*! *Wilford*, 62! *Harland*!), Aberdeen and Mt. Victoria (*Lamont*!); LUCHU ARCHIPELAGO (*Wright*! *Beechey*!). Mus. Brit.; Herb. Kew.

Japan, India, Malaya.

I believe that there is only one species of this genus, of which *P. rufobarbatum*, Griff., distinguished as a second species by Hackel, forms part. It is often difficult to say to which of Hackel's varieties a given specimen belongs, and both seem to be distributed over the whole area of the species. Bentham (Journ. Linn. Soc., Bot. xix. p. 67) says the genus "is a single tropical and subtropical Asiatic species."

1. **Apocopis Wightii**, *Nees, ex Steud. Syn. Gram.* p. 377; *Hook. f. Fl. Brit. Ind.* vii. p. 142.

Apocopis Wightii, subsp. *a.* genuinus, var. *γ.* Wrightii, *Hack. Mon. Androp.* p. 259.

Apocopis Wrightii, *Munro, in Proc. Amer. Acad.* iv. (1860) p. 363, *et in Benth. Fl. Hongk.* p. 421.

Andropogon courtallumensis, *Steud. Syn. Gram.* p. 377.

KWANGTUNG: Whampoa (*Hance*, 7432 in part!), Canton (*Sampson*, 296!), Lofaushan (*Ford*, 134 in part!); HONGKONG (*Hance*, 7432 in part!), Cumsingmoon (*Wright*! *Ford*, 134 in part!). Mus. Brit.; Herb. Kew.

India, Ceylon.

1. **Dimeria falcata,** *Hack. Mon. Androp.* p. 85.

Dimeria fuscescens, *Munro, in Benth. Fl. Hongk.* p. 419, non *Trin.*

Fokien: Amoy (*Hance*, 1385 in part!); Kwangtung: Canton (*Sampson*, 1051!); Hongkong (*Hance*, 1385 in part! *Lamont*!). Mus. Brit.; Herb. Kew.

Tonkin.

2. **Dimeria sinensis,** *Rendle*, n. sp.

Herba annua; culmi erecti, filiformes, simplices (vel interdum cum ramo racemifero altero e nodo secundo orto), 7-nodi, 6–11 poll. alti. *Foliorum* vaginæ, ut laminæ præsertim in marginibus, tuberculato-ciliatæ, ad nodos barbatæ; ligula perbrevis, truncata; laminæ planæ, lineares, acutæ, in parte culmi inferiore ad $1\frac{1}{2}$ poll. longæ et $\frac{3}{4}$ lin. latæ, superne breviores, summa rudimentaria. *Racemus* solitarius terminalis, ultra folium ultimum plus minus elatus, densus, $1–1\frac{1}{4}$ poll. longus, circa 1 lin. latus, rhachi subflexuosa, dorso in parte inferiore sulco tenui percursa, marginibus anguste alata et breviter ciliata; spiculæ conniventes, $1\frac{1}{2}$ lin. longæ; pedicelli brevissimi dorso breviter barbati; callus brevissimus cum pilis ipsi subæquantibus instructus. *Gluma* i. linearis, obtusa, basi subangustata, in margine, sub apice excepta, et carina dense pilosa, vix $1\frac{1}{2}$ lin. longa; gl. ii. quam prima duplo latior, rhomboideo-oblonga, obtusa, basi angustata, margine membranacea, carina lata, pilosa, $1\frac{1}{2}$ lin. longa, $\frac{1}{2}$ lin. lata; gl. iii. angusta, hyalina, enervis, apice obtuso pilosa, margine sparse pilosa, vix $\frac{1}{2}$ lin. longa; gl. iv. oblonga, basi angustata, hyalina, uninervis, apice obtusa, $1\frac{1}{6}$ lin. longa; arista perfecta, $6\frac{1}{2}$ lin. longa, columna vix 3 lin. longa.

Kwangtung: Canton (*Hance*, 1385 in part!). Mus. Brit.

Has the habit of the Ceylon species *Dimeria pusilla*, Thwaites, but is at once distinguished by its remarkably blunt spikelets.

1. **Arthraxon breviaristatus,** *Hack. Mon. Androp.* p. 350; *Hook. f. Fl. Brit. Ind.* vii. p. 144.

Yunnan: Kimise (*Delavay*, 1811 in herb. Paris. fide *Hackel*). Khasia Hills.

I have seen no specimen.

2. **Arthraxon ciliaris,** *Beauv. Agrost.* p. 111, t. xi. fig. 6; *Hance, in Journ. Linn. Soc., Bot.* xiii. (1873) p. 134; *Franchet*,

Pl. David. i. p. 328, *et in Mém. Soc. Sci. Nat. Cherbourg*, xxiv. (1884) p. 272; *Franch. et Savat. Enum. Pl. Jap.* ii. p. 187; *Hook. f. Fl. Brit. Ind.* vii. p. 145.

Subsp. *a.* **Langsdorfii,** var. *α.* genuinus, *Hack. Mon. Androp.* p. 355, *et in Bull. Herb. Boiss.* vii. (1899) p. 642, et sér. 2, iii. (1903) p. 501; *Komarow, in Act. Hort. Petrop.* xx. (1903) p. 248.

Arthraxon japonicus, *Miq. in Ann. Mus. Bot. Lugd.-Bat.* ii. p. 288.

Arthraxon Langsdorffianus, *Hochst. in Flora*, xxxix. (1856) p. 188.

Andropogon lasiocoles, *Steud. Syn. Gram.* p. 383.

Andropogon amplexifolius, *Trin. in Mém. Acad. Sci. Pétersb.* sér. 6, ii. p. 274.

Deyeuxia japonica, *Spreng. Syst.* i. p. 254.

Lasiolytrum hispidum, *Steud. in Flora*, xxxi. (1846) p. 18.

Lasiolytrum hirtum, *Steud. Syn. Gram.* p. 12.

Lasiolytrum japonicum, *Steud. ex Miq. in Ann. Mus. Bot. Lugd.-Bat.* ii. p. 288.

Pleuroplitis Langsdorffii, *Trin. Fund. Agrost.* p. 175, t. xvi.

Pleuroplitis Langsdorffi, varr. japonica, typica, et breviseta, *Regel, in Bull. Acad. Sci. Pétersb.* x. (1866) pp. 373, 374.

Lucæa Langsdorffiana, *Steud. Syn. Gram.* p. 413.

CHINA: East Coast (*Home*!); SHINGKING (*Ross*, 64!), Kaichow to Kinchow (*Ross*, 182!); SHANGTUNG: Chefoo (*Forbes*, 405! *Maingay*, 65!); KIANGSU: Shanghai (*Maingay*, 659! *Faber*, 304!); KIANGSI: Kiukiang (*Shearer*!); FOKIEN: Amoy (*Hance*, 1396 in part!); SZECHUEN: Mt. Thaepeisan (*Hugh*!); YUNNAN: Mengtze, 4700 feet (*A. Henry*, 9137 A!); KWANGTUNG: Whampoa (*Hance*, 1396 in part!). Mus. Brit.; Herb. Kew.

Japan.

Subsp. *b.* **submuticus,** *Hack. Mon. Androp.* p. 356.

KIANGSU: Shanghai (*Seemann*!); HUPEH: Patung (*A. Henry*, 4806!); LUCHU ARCHIPELAGO (*Wright*!). Herb. Kew.

North India.

A species with numerous varieties which is widely spread through the warmer parts of the Old World.

3. **Arthraxon cuspidatus,** *Hochst. in Flora*, xxxix. (1856) p. 188; var. **micans,** *Hack. Mon. Androp.* p. 353; *Pilger, in Engl. Bot. Jahrb.* xxix. (1900) p 222.

Arthraxon micans, *Hochst. l. c.*; *Franchet, Pl. David.* ii. p. 147.

Arthraxon ciliaris, *Beauv.*, group *c*, *Hook. f. Fl. Brit. Ind.* vii. p. 146.

Szechuen: Moupin (*David*, fide *Franchet*).

India, Mauritius.

I have seen no specimen.

4. **Arthraxon lanceolatus,** *Hochst. in Flora*, xxxix. (1856) p. 188; *Hack. Mon. Androp.* p. 347; *Hook. f. Fl. Brit. Ind.* vii. p. 143.

Chihli: Mountains west of Peking (*Bretschneider*, in herb. *Forbes*!); Kiangsu: Kiangnan (*Staunton*!); Hupeh (*A. Henry*, 2282!); Yunnan: Mengtze, 4700 feet (*A. Henry*, 9137!). Mus. Brit.; Herb. Kew.

India; Abyssinia; Nubia.

5. **Arthraxon nodosus,** *Komarow, in Act. Hort. Petrop.* xviii. (1901) p. 448.

Corea: Czaschin, Kenge district (*Komarow*).

I have seen no specimen.

1. **Rottboellia compressa,** *Linn. f. Suppl.* p. 114; *Hack. Mon. Androp.* p. 286, *et in Bull. Herb. Boiss.* vii. (1899) p. 723; *Hook. f. Fl. Brit. Ind.* vii. p. 153; *Komarow, in Act. Hort. Petrop.* xx. (1903) p. 247.

Hemarthria compressa, *R. Br. Prodr.* p. 207; *Miq. in Ann. Mus. Bot. Lugd.-Bat.* ii. p. 287; *Franch. et Savat. Enum. Pl. Jap.* ii. p. 186; *Franchet, in Mém. Soc. Sci. Nat. Cherbourg*, xxiv. (1884) p. 272.

Var. **genuina,** *Hack. Mon. Androp.* p. 286; *A. Henry, in Trans. Asiat. Soc. Jap.* xxiv. *Suppl.* (1896) p. 108, *sub* Hemarthria fasciculata, *Kunth.*

Formosa: Takow (*A. Henry*, 1896!), Apes' Hill (*Playfair*, 123!); Yunnan: Mengtze, 4500 feet (*A. Henry*, 10169!); 7 Kwangtung: Canton (*Sampson et Hance*, in herb. *Hance*, 1862 in part!). Mus. Brit.; Herb. Kew.

India.

Var. **fasciculata,** *Hack. Mon. Androp.* p. 286.

Hemarthria fasciculata, *Kunth, Rév. Gram.* i. p. 153; *Benth. Fl. Hongk.* p. 418.

Hongkong (*Hance*, 1862 in part!). Mus. Brit.

Mediterranean region to North India, South Africa, Madagascar, Tropical and Subtropical America.

Var. **japonica,** *Hack. l. c.* p. 288, *et in Bull. Herb. Boiss.* sér. 2, iii. (1903) p. 501.

Chihli (*Staunton*!); Shingking (*Ross*, 55!); Shantung:

Chefoo (*Faber*, 290! *Forbes*, 399!). Mus. Brit.; Herb. Kew.

Japan.

Scarcely distinguishable from var. *fasciculata*.

2. **Rottboellia exaltata,** *Linn. f. Suppl.* p. 114; *Nees, in Nov. Act. Nat. Cur.* xix. *Suppl.* i. (1843) p. 201; *Hack. Mon. Androp.* p. 293; *Hook. f. Fl. Brit. Ind.* vii. p. 156; *A. Henry, in Trans. Asiat. Soc. Jap.* xxiv. *Suppl.* (1896) p. 108.

Stegosia cochinchinensis, *Lour. Fl. Cochinch.* p. 51.

Fokien: Amoy (*Hance*, 1395 in part!); Formosa: Takow (*A. Henry*, 1127 A!), Apes' Hill (*A. Henry*, 1127! *Playfair*, 194!); Kwangtung: Whampoa (*Hance*, 1395 in part!), Macao (*Bladh*! *Ford*, 203!). Mus. Brit.; Herb. Kew.

Widely distributed in the tropics.

3. **Rottboellia latifolia,** *Steud. in Flora*, xxxi. (1846) p. 21, *et Syn. Gram.* p. 361; *Hack. Mon. Androp.* p. 281, *et in Bull. Herb. Boiss.* vii. (1899) p. 641, et sér. 2, iii. (1903) p. 501; *Debeaux, Fl. Shanghai*, p. 71.

Rottboellia foliata, *Steud. Syn. Gram.* p. 361.

Ischæmum latifolium, *Miq. in Ann. Mus. Bot. Lugd.-Bat.* ii. p. 291; *Franch. et Savat. Enum. Pl. Jap.* ii. p. 193.

China: without locality (*Fortune*, A 29!); East Coast (*Home*!). Mus. Brit.; Herb. Kew.

Japan.

4. **Rottboellia mollicoma,** *Hance, in Journ. Bot.* ix. (1871) p. 134; *Hack. Mon. Androp.* p. 297.

Kwangtung: Whampoa (*Hance*, 7558!), Lofaushan (*Ford*, 130!). Mus. Brit.; Herb. Kew.

Tonkin.

A very distinct species with the habit of *R. glandulosa*, Trin., but at once distinguished by the sessile spikelet at each node, the back of which is conspicuously tesselated as in *R. nigrescens*, Thwaites; it differs from the latter in the perfectly free stalk of the rudimentary pedicelled spikelet.

1. **Ophiurus monostachyus,** *J. S. Presl, in C. B. Presl, Rel. Hænk.* i. p. 330; *Hack. Mon. Androp.* p. 318; *Benth. Fl. Hongk.* p. 417.

Ophiurus undatus, *Nees, in Hook. Kew Journ.* ii. (1850) p. 100.

FORMOSA: Takow (*A. Henry*, 1201!); HONGKONG (*Hance*, 1248! *Harland*!). Mus. Brit.; Herb. Kew.

Philippine Islands; Tonkin.

1. **Manisuris granularis,** *Linn. f. Nov. Gram. Gen.* p. 37, figs. 4–7; *Hack. Mon. Androp.* p. 314; *A. Henry, in Trans. Asiat. Soc. Jap.* xxiv. *Suppl.* (1896) p. 108.

FORMOSA: Apes' Hill, Takow (*A. Henry*, 1865!), Tamsui (*A. Henry*, 1478!); KWANGTUNG: Whampoa (*Hance*, 5022! *Ford*, 205!); HAINAN (*A. Henry*, 8120!). Mus. Brit.; Herb. Kew.

Tropics of both hemispheres.

1. **Eremochloa leersioides,** *Hack. Mon. Androp.* p. 264; *Hook. f. Fl. Brit. Ind.* vii. p. 140.

Eremochloa falcata, *Hack. l. c.* p. 263.

Ischæmum leersioides, *Munro, in Proc. Amer. Acad.* iv. (1864–65) p. 363; *Benth. Fl. Hongk.* p. 425; *Hance, in Journ. Linn. Soc., Bot.* xiii. (1873) p. 135; *Pilger, in Engl. Jahrb.* xxix. (1900) p. 222.

Ischæmum pectinatum, *Nees, in Nov. Act. Nat. Cur.* xix. *Suppl.* i. (1843) p. 201 (quoad plantam chinensem).

Nardus ciliaris, *Linn. Sp. Pl.* p. 53; *Osbeck, Resa*, p. 220.

KWANGTUNG (*Tate*! *Ford*, 198!), Sam Cocks Island near Macao (*Staunton*!), Canton (*Sampson*, 303!), Whampoa (*Wright*!), Pakhoi (*Playfair*, 147!); HONGKONG (*Hance*, 1251! *Lamont*! *Forbes*, 497! *Wilford*, 249! *Seemann*, 223! *Faurie*, 15849!). Mus. Brit.; Herb. Kew.

Pegu, Tonkin.

This species is very near *Eremochloa zeylanica*, of which it is probably only a less robust variety, with shorter, more falcate spikes and narrower, less obtuse leaves.

2. **Eremochloa ophiuroides,** *Hack. Mon. Androp.* p. 261.

Ischæmum ophiouroides, *Munro, in Proc. Amer. Acad.* iv. (1864–65) p. 363; *Benth. Fl. Hongk.* p. 425.

KIANGSU: Kiangnan (*Staunton*!); CHEKIANG: Ningpo Mts. (*Faber*, 1532!); HUPEH (*A. Henry*, 4148!); KWANGTUNG: Whampoa (*Wright*!), Macao (*Tate*!), Pakhoi (*Playfair*, 142 in part!); HONGKONG (*Hance*, 1249!). Mus. Brit.; Herb. Kew.

3. **Eremochloa zeylanica,** *Hack. Mon. Androp.* p. 263; *Hook. f. Fl. Brit. Ind.* vii. p. 140.

Hupeh (*A. Henry*, 3502, 569 !). Mus. Brit.; Herb. Kew.

Ceylon.

1. **Ischæmum angustifolium,** *Hack. ex Oliver, in Hook. Icon. Pl.* (1888) t. 1773, *et in Mon. Androp.* p. 241, *et in Bull. Herb. Boiss.* vii. (1899) p. 723; *Hook. f. Fl. Brit. Ind.* vii. p. 129; *A. Henry, in Trans. Asiat. Soc. Jap.* xxiv. *Suppl.* (1896) p. 108; *Pilger, in Engl. Bot. Jahrb.* xxix. (1900) p. 222.

Pollinia eriopoda, *Hance, in Journ. Bot.* iv. (1866) p. 173.

Formosa: Apes' Hill (*Swinhoe*, in herb. *Hance*, 12585 ! *A. Henry*, 1056 !); Hupeh (*A. Henry*, 568 !); Yunnan: Mengtze, 5000 ft. (*A. Henry*, 10390 !). Mus. Brit.; Herb. Kew.

India, North to Central; Philippines.

2. **Ischæmum antephoroides,** *Miq. in Ann. Mus. Bot. Lugd.-Bat.* iii. p. 193; *Franch. et Savat. Enum. Pl. Jap.* ii. p. 193; *Hack. Mon. Androp.* p. 216, *et in Bull. Herb. Boiss.* vii. (1899) p. 641.

Ischæmum barbatum, *Miq. in Ann. Mus. Bot. Lugd.-Bat.* ii. p. 291, non *Retz.*

Shantung: Chefoo (*Carmichael*, in herb. *Forbes*, 1074 ! *Maingay*, 66 !). Mus. Brit.; Herb. Kew.

Japan.

3. **Ischæmum aristatum,** *Linn. Sp. Pl.* p. 1049; *Hook. f. Fl. Brit. Ind.* vii. p. 126.

Subsp. **imberbe,** *Hack. Mon. Androp.* p. 203.

Formosa: Takow (*A. Henry*, 1807, 2046 !); Hupeh: Ichang (*A. Henry*, 2299, 4242 !); Kwangtung: Canton (*Sampson*, 304 !). Mus. Brit.; Herb. Kew.

India, Malaya.

Subsp. **barbatum,** *Hack. l. c.* p. 204; *Pilger, in Engl. Bot. Jahrb.* xxix. (1900) p. 222.

Ischæmum barbatum, *Retz. Obs.* vi. p. 35; *Benth. Fl. Hongk.* p. 425; *Franchet, in Mém. Soc. Sc. Nat. Cherbourg*, xxiv. (1884) p. 273.

Meoschium lodiculare, *Nees, in Hook. & Arn. Bot. Beechey's Voy.* p. 246, *et in Nov. Act. Nat. Cur.* xix. *Suppl.* i. (1843) p. 195.

Meoschium Meyenianum, *Nees, in Nov. Act. l. c.* p. 197.

China: without locality (*Staunton* !); Kwangtung: Macao

(*Tate* !), Pakhoi (*Playfair* !); HONGKONG (*Hance*, 1257! *Harland*! *Hind*! *Seemann*, 232! *Wilford*! *Wright*! *Champion*, 545!), Mt. Victoria (*Lamont* !). Mus. Brit.; Herb. Kew.

India, Malaya.

4. **Ischæmum aureum**, *Hack. Mon. Androp.* p. 224.

Spodiopogon aureus, *Hook. & Arn. Bot. Beechey's Voy.* p. 273.

LUCHU ARCHIPELAGO (*Beechey*, 672 !). Herb. Kew.

5. **Ischæmum ciliare**, *Retz. Obs.* vi. p. 36; *Hook. f. Fl. Brit. Ind.* vii. p. 134, *et in Trim. Fl. Ceyl.* v. p. 216; *Franchet, in Mém. Soc. Sci. Nat. Cherbourg*, xxiv. (1884) p. 273; *Debeaux, Fl. Tchéfou*, p. 163; *Hack. in Bull. Herb. Boiss.* vii. (1899) p. 723.

Ischæmum ciliare, var. genuinum, *Hack. Mon. Androp.* p. 226.

Spodiopogon obliquivalvis, *Nees, in Nov. Act. Nat. Cur.* xix. *Suppl.* i. (1843) p. 185; *Benth. Fl. Hongk.* p. 426, including var. *villosus*, Benth.

Spodiopogon villosus, *Nees, in Hook. & Arn. Bot. Beechey's Voy.* p. 242.

CHINA: without locality (*Staunton* ! *Reeves* !); KIANGSI (*Staunton* !); FOKIEN: Amoy (*Hance*, 1257 !); FORMOSA: Tamsui (*Oldham*, 623 !); KWANGTUNG: Whampoa (*Robertson* ! *Hance*, 1526 in part !), hills near Canton (*Sampson*, 371 !), Pakhoi (*Playfair*, 155 !), Ookaisa, sandy banks near sea (*Tate* !), Cape Syngmun (*Wright* !); HONGKONG: Mt. Victoria and Govt. Gardens (*Lamont* ! *Forbes*, 496 ! *Hance*, 1526 in part ! *Tate* !). Mus. Brit.; Herb. Kew.

India, Ceylon, Malaya.

I cannot arrange the Chinese specimens under the subvarieties of the var. *genuinum* (which corresponds with the species) proposed by Hackel. I find villous forms with scrobiculate first glumes, &c.

6. **Ischæmum eriostachyum**, *Hack. Mon. Androp.* p. 218.

Ischæmum barbatum, *Debeaux, Fl. Tchéfou*, p. 163, non *Retz.*, fide *Hackel, l. c.*

SHANTUNG: Chefoo (*Debeaux*, *Wawra* fide *Hackel*).

Japan.

I have seen no specimen.

7. **Ischæmum laxum**, *R. Br. Prodr.* p. 205; *Hack. Mon. Androp.* p. 243; *Hook. f. Fl. Brit. Ind.* vii. p. 136.

— Yunnan: Mengtze, 4600 ft. (*A. Henry*, 9618, 9618 A!). Herb. Kew.

Cape Verde Is., Tropical Africa, Arabia, Tropical Asia to Australia.

8. **Ischæmum rugosum,** *Salisb. Ic. Stirp. Rar.* i. t. 1; *Hack. Mon. Androp.* p. 206, *et in Bull. Mus. Herb. Boiss.* vii. (1899) p. 723; *Hook. f. Fl. Brit. Ind.* vii. p. 127.

Ischæmum segetum, *Trin. in Mém. Acad. Sci. Pétersb.* sér. 6, ii. p. 294; *Hance, in Journ. Bot.* xvi. (1878) p. 233.

Meoschium rugosum, *Nees, in Nov. Act. Nat. Cur.* xix. *Suppl.* i. (1843) p. 200.

Formosa: Takow (*A. Henry*, 2001!); Kwangtung: Whampoa (*Hance*, 9665!), by river Lienchau (*Nevin*, in herb. *Hance*, 20150!), Pakhoi (*Playfair*, 153!). Mus. Brit.; Herb. Kew.

India, Malaya.

9. **Ischæmum Sieboldi,** *Miq. in Ann. Mus. Bot. Lugd.-Bat.* ii. p. 291; *Franch. et Savat. Enum. Pl. Japon.* ii. p. 193; *Franchet, in Mém. Soc. Sci. Nat. Cherbourg*, xxiv. (1884) p. 273; *Hack. Mon. Androp.* p. 217, *et in Bull. Herb. Boiss.* vii. (1899) p. 641, et sér. 2, iii. (1903) p. 501; *Debeaux, Fl. Tchéfou*, p. 163.

China: East Coast (*Home*!); Shantung: Chefoo (*Forbes*, 384!); Kiangsu: Shanghai (*Fabre-Tonnerre*, in herb. *Hance*, 10156! *Maingay*, 557, 667!). Mus. Brit.; Herb. Kew.

Japan.

1. **Heteropogon contortus,** *Beauv. ex Roem. et Schult. Syst.* ii. p. 836; *Nees, in Hook. & Arn. in Bot. Beechey's Voy.* p. 241.

Andropogon contortus, *Linn. Sp. Pl.* p. 1045; *Hack. Mon. Androp.* p. 585, *et in Bull. Herb. Boiss.* vii. pp. 721, 723; *Hook. f. Fl. Brit. Ind.* vii. p. 199.

Heteropogon hirtus, *Pers. Syn.* ii. p. 533; *Benth. Fl. Hongk.* p. 424; *A. Henry, in Trans. Asiat. Soc. Jap.* xxiv. *Suppl.* (1896) p. 108.

Formosa: Apes' Hill, Takow (*A. Henry*! *Playfair*, 289!); Hupeh: Ichang (*A. Henry*, 442, 4143!); Kwangtung: Canton (*Sampson*, 302!); Hongkong (*Hance*, 555! *Wright*!), Mount Victoria (*Lamont*!), Aberdeen and Little Hongkong (*Wilford*, 258!). Mus. Brit.; Herb. Kew.

Generally distributed in the warmer parts of the earth.

1. **Sorghum fulvum**, *Beauv. Agrost.* p. 164.

Andropogon serratus, *Thunb. Fl. Jap.* p. 41; *Franchet, in Mém. Soc. Sci. Nat. Cherbourg*, xxiv. (1884) p. 273; *Franch. et Savat. Enum. Pl. Jap.* ii. p. 192.

Andropogon serratus, var. genuinus, *Hack. Mon. Androp.* p. 521, *et in Bull. Herb. Boiss.* vii. (1899) p. 642, et sér. 2, iii. (1903) p. 501; *Hook. f. Fl. Brit. Ind.* vii. p. 185.

Andropogon tropicus, *Spreng. Syst. Veg.* i. p. 287; *Benth. Fl. Hongk.* p. 423; *Miq. in Ann. Mus. Bot. Lugd.-Bat.* ii. p. 290; *Debeaux, Fl. Tientsin*, p. 74; *Franchet, Pl. David.* i. p. 328; *Franch. et Savat. Enum. Pl. Jap.* ii. p. 192.

Holcus fulvus, *R. Br. Prodr.* p. 199.

FOKIEN: Amoy (*Hance*, 1394 in part!); KIANGSU: Chinkiang (*Carles*, 501!); KIANGSI: Kiukiang (*Shearer*!); HUPEH: Ichang (*A. Henry*, 28, 4234!); KWANGTUNG: Canton (*Hance*, 1394 in part! *Sampson*, 476!). Mus. Brit.; Herb. Kew.

India, Malaya, Japan, Australia.

Var. **nitidum**, *Hack. Mon. Androp.* p. 521; *Hook. f. Fl. Brit. Ind.* vii. p. 185.

Andropogon nitidus, *Kunth, Rév. Gram.* i. p. 166.

Sorghum nitidum, *Pers. Syn.* p. 101.

FORMOSA: Tamsui (*Oldham*, 624!), Takow plain (*A. Henry*, 1895!). Mus. Brit.; Herb. Kew.

India, Malaya.

2. **Sorghum halepense**, *Pers. Syn.* i. p. 101.

Andropogon halepensis, *Brot. Fl. Lusit.* i. p. 89; *Hook. f. Fl. Brit. Ind.* vii. p. 182; *Franchet, in Mém. Soc. Sci. Nat. Cherbourg*, xxiv. (1884) p. 273.

Andropogon Sorghum, subsp. halepensis, *Hack. Mon. Androp.* p. 501.

KWANGTUNG: Canton, by river Lienchau (*Nevin*, in herb. *Hance*, 4879 in part!), banks of North River, Canton (*Sampson*, in herb. *Hance*, 4879 in part!); HAINAN: Nartaisee (herb. *Ford*, 484! *A. Henry*, 8295!). Mus. Brit.; Herb. Kew.

Most warm countries.

3. **Sorghum vulgare**, *Pers. Syn.* i. p. 101; *A. Henry, in Trans. Asiat. Soc. Jap.* xxiv. *Suppl.* (1896) p. 108.

Andropogon Sorghum, *Brot. Fl. Lusit.* i. p. 88; *Komarow, in Act. Hort. Petrop.* xx. (1901) p. 250.

Andropogon Sorghum, subsp. sativus, var. vulgaris, *Hack. Mon. Androp.* p. 515; *Stapf, in Hook. f. Fl. Brit. Ind.* vii. p. 184.

FORMOSA: Baukinsing, cultivated (*A. Henry*, 807!); South Cape (*Schmürer*, in herb. *A. Henry*, 257!). Mus. Brit.; Herb. Kew.

Widely cultivated in warm countries.

Var. **bicolor**, *Hack. l. c.* p. 519.

CHIHLI: Peking (*Bretschneider*, 799–800!). Herb. Kew.

Var. **nervosum**, *Hack. l. c.* p. 513; *Stapf, in Hook. f. Fl. Brit. Ind.* vii. p. 184.

CHIHLI: Peking, cultivated (*Bretschneider*, in herb. *Hance*, 1349 in part!); FOKIEN: Amoy, cultivated (*Hance*, 1349 in part!); CHINA: East Coast (*Home*!); HAINAN (*A. Henry*, 8757!). Mus. Brit.; Herb. Kew.

India.

Var. **obovatum**, *Hack. l. c.* p. 514; *Stapf, l. c.*

KIANGSU: Shanghai (*Faber*, 277 in part!); CHEKIANG: Ningpo (*Faber*, 277 in part!); KWANGTUNG: waste ground near Canton (*Hance*, 5544!). Mus. Brit.; Herb. Kew.

Madeira, Mediterranean Region, India, Japan.

1. **Chrysopogon aciculatus**, *Trin. Fund. Agrost.* p. 188; *Benth. Fl. Hongk.* p. 424; *Hance, in Ann. Sci. Nat.* sér. 5, v. (1866) p. 253; *Nees, in Hook. & Arn. Bot. Beechey's Voy.* p. 238; *Hook. & Arn. l. c.* p. 273; *A. Henry, in Trans. Asiat. Soc. Jap.* xxiv. *Suppl.* (1896) p. 108.

Andropogon aciculatus, *Retz. Obs.* v. p. 22; *Hack. Mon. Androp.* p. 562, *et in Bull. Herb. Boiss.* vii. (1899) pp. 721, 723.

Centrophorum chinense, *Trin. Fund. Agrost.* p. 106, t. 5.

Rhaphis trivialis, *Lour. Fl. Cochinch.* p. 553.

FORMOSA (*Campbell*!), Tamsui (*Oldham*, 622!), Takow (*A. Henry*, 1034!), Apes' Hill (*Playfair*, 33!); KWANGTUNG: Macao (*Vachell*, 49!), Pakhoi (*Playfair*, 152!), Lofaushan (*Ford*!); HONGKONG (*Hance*, 383! *Tate*! *Wright*!), Little Hongkong (*Wilford*, 326!), Happy Valley and West Point (*Lamont*!); LUCHU ARCHIPELAGO (*Lay & Collie*!). Mus. Brit.; Herb. Kew.

Mauritius, Tropical Asia, Australia, Polynesia.

2. **Chrysopogon sinensis**, *Rendle*, n. sp.

Planta perennis; culmi ascendentes, demum erecti, ramosi, 12–15 poll. alti, vix semilineam crassit. excedentes, plurinodi.

Foliorum vaginæ glabræ, in parte culmi inferiore breviores, ad 2¼ poll. long., internodiis sæpe æquantes vel excedentes; ligula in seriem ciliorum brevissimorum soluta; laminæ sæpius conduplicatæ, lineares, obtusiusculæ, ad 2¾ poll. longæ, vix 1 lin. crassit. superantes, rigidiusculæ, basi in margine sparse barbatæ, ceterum glabræ. *Panicula* breviter exserta, demum subpyramidalis, ad 6 poll. longa; rami inæquales, septeni vel pauciores, demum patentes, filiformes, sub apice sensim incrassati, cum ramulo terminale spiculam singulam fertilem gerente, oblique articulati, disjuncti cicatricem ovalem ferrugineo-ciliatam exhibentes; ramulus 2 lin. longus, ferrugineo-pilosus. *Spicula sessilis* 2½ lin. longa, glabra; gluma i. elliptico-oblonga, binervis, apice breviter bifida et hirsutula; gl. ii. primam subæquans, oblonga, compressa, 3-nervis, dorso rotundata et coriacea, marginibus hyalina, cum arista imperfecta dorsali 6 lin. longa; gl. iii. anguste linearis hyalina, margine ciliolata, quam prima et secunda paullo brevior; gl. fertilis anguste linearis, 3-nervis, hyalina, 2 lin. longa, arista perfecta 1¼ poll. longa, columna brunnea semipollicaris; antheræ lineares 1½ lin. longæ. *Spicula pedicellata* 3 lin. longa, pedicellus ferrugineo-pilosus, vix 2 lin. long.; gluma i. lanceolata, apice obsolete aristulata, 6–7-nervis; gl. ii. lanceolata, acuta, 3-nervis, primam æquans; gl. iii. & iv. hyalinæ, margine ciliatæ, gl. iii. vix 3 lin. longa, binervis, gl. iv. anguste elliptica, 3-nervis, quam tertia paullo brevior, antheræ vix 2 lin. longæ.

KWANGTUNG: Pakhoi (*Playfair*, 144!); HAINAN: roadside leading from Hoihau to Kingchau (*Sampson*, in herb. *Hance*, 3453!). Mus. Brit.; Herb. Kew.

Near *Andropogon Trinii*, Steud., but distinguished by the longer partial inflorescence, the much elongated oblique base by which the latter is attached to the branch, the longer stalk of the partial inflorescence, &c.

1. **Andropogon annulatus**, *Forsk. Fl. Æg.-Arab.* p. 173; *Hack. Mon. Androp.* p. 570; *Hook. f. Fl. Brit. Ind.* vii. p. 196.

Var. **genuinus**, *Hack. l. c.* p. 572.

HUPEH: Ichang (*A. Henry*, 200, 1090, 3528!); HONGKONG (*Ford*, 102!). Mus. Brit.; Herb. Kew.

Arabia to India, Africa, Australia.

Var. **Bladhii,** *Hack. Mon. Androp.* p. 572; *Hook. f. Fl. Brit. Ind.* vii. p. 197.

Andropogon Bladhii, *Retz. Obs.* ii. p. 27; *Nees, in Hook. & Arn. Bot. Beechey's Voy.* p. 243.

KWANGTUNG: Canton, very abundant (*Sampson*, 1057 !). Herb. Kew.

India.

2. **Andropogon apricus,** *Trin. in Mém. Acad. Sci. Pétersb.* sér. 6, iv. (1836) p. 83; var. **indicus,** *Hack. Mon. Androp.* p. 457.

Andropogon apricus, *Hook. f. Fl. Brit. Ind.* vii. p. 169.

YUNNAN: Mengtze, barren clay hills, 4600 ft. (*A. Henry*, 10995 !). Herb. Kew.

The species occurs in India, West Tropical Africa, and Tropical America.

3. **Andropogon assimilis,** *Steud. Syn. Gram.* p. 397; *Hook. f. Fl. Brit. Ind.* vii. p. 179.

Andropogon glaucopsis *et* A. subrepens, *Steud. l. c.*

Andropogon montanus, *Hack. Mon. Androp.* p. 490, non *Roxb.*

Chrysopogon pictus, *Hance, in Ann. Sci. Nat.* sér. 5, v. (1866) p. 252.

CHIHLI: Peking (*Williams*, in herb. *Hance*, 10154 in part !); CHEKIANG: Changking (*Faber* !); FOKIEN (*De Grijs*, in herb. *Hance*, 10154 in part !); HUPEH: Ichang (*A. Henry*, 4220, 97 4177 !); SZECHUEN: Suifu, Yangtzekiang (*Faber*, 1169 !); YUNNAN: Mengtze, 4600–4800 ft. (*A. Henry*, 9138, 9615, 9617 !), Szemao, 5500 ft. (*A. Henry*, 13414 !); KWANGTUNG: Canton (*Lamont* !), White Cloud Hills (*Sampson*, 1902 in part !); LUCHU ARCHIPELAGO (*Wright* !). Mus. Brit.; Herb. Kew.

India, Java, Timor.

Scarcely distinct from *A. micranthus*, Kunth.

4. **Andropogon brevifolius,** *Swartz, Prodr. Veg. Ind. Occ.* p. 26; *Hack. Mon. Androp.* p. 363, *et in Bull. Herb. Boiss.* vii. (1899) p. 642, et sér. 2, iii. (1903) p. 501; *Benth. Fl. Hongk.* p. 423; *Hance, in Journ. Linn. Soc., Bot.* xiii. (1873) p. 135; *Franch. et Savat. Enum. Pl. Jap.* ii. p. 191; *Miq. in Ann. Mus. Bot. Lugd.-Bat.* ii. p. 291; *Hook. f. Fl. Brit. Ind.* vii. p. 165; *Franchet, in Mém. Soc. Sci. Nat. Cherbourg*, xxiv. (1884) p. 273.

SHANTUNG: Chefoo (*Forbes*, 395 !), Chefoo Mountains (*Faber*, 288 !); KWANGTUNG: Whampoa (*Hance*, 6401 !), Canton (*Sampson*, 1409 !). Mus. Brit.; Herb. Kew.

Japan; tropics of both worlds.

5. **Andropogon caricosus,** *Linn. Sp. Pl.* ed. 2, p. 1480; *Hack. Mon. Androp.* p. 567; *Hook. f. Fl. Brit. Ind.* vii. p. 196.

YUNNAN: near Tapintze (*Delavay*, fide *Hackel*).

India, Timor, Mauritius.

I have seen no specimen.

6. **Andropogon Delavayi,** *Hack. Mon. Androp.* p. 404.

YUNNAN: Kimise (*Delavay*, 1800), meadows at Kipinkay near Tali (*Delavay*, 2242).

I have seen no specimen.

7. **Andropogon fastigiatus,** *Sw. Prodr. Veg. Ind. Occ.* p. 26; *Hack. Mon. Androp.* p. 393; *Hook. f. Fl. Brit. Ind.* vii. p. 167.

Andropogon apricus, *Trin.*, var. chinensis, *Hack. Mon. Androp.* p. 457.

Homœatherum chinense, *Nees, in Hook. & Arn. Bot. Beechey's Voy.* p. 239.

KWANGTUNG: Macao (*Vachell*, fide *Nees*).

Widely spread in the tropics of both hemispheres.

I have not seen the specimen.

8. **Andropogon formosanus,** *Rendle*, n. sp.

Herba late ramosa; rami multinodi repentes ad nodos geniculatos radicantes, demum adscendentes et floriferi, radicibus valde elongatis, internodiis teretibus, ad $\frac{2}{3}$ lin. crass., glabris. *Foliorum* vaginæ cylindricæ ad internodia breviora arcte applicitæ, glabræ (sub ore quidem sparsius pilosulæ); ligula membranacea, ovata, obtusa, brunneo-tincta, pilosula, vix 1 lin. longa; lamina linearis, apice acuminato-setacea, basi valde angustata, plana, glabra, costa media præcipue in facie inferiore albida et conspicua, $2\frac{1}{2}$–4 poll. longa, $2\frac{1}{2}$–3 lin. lata. *Panicula* terminalis, ramis 3–6, fastigiatis, sæpe subdigitatis, tenuibus, 1–$1\frac{1}{4}$ poll. longis, axem communem duplo vel pluries excedentibus; racemi fragiles, articuli pedicellique tenues, anguste clavati, haud sulcati, articuli circa $1\frac{2}{3}$ lin. longi, glabri, vel

margine exteriore, in parte racemi superiore, piloso, pedicelli ½ ad ¾ articulorum longitudini æquantes, utroque margine cum pilis patentibus instructi. *Spicula sessilis* lineari-lanceolata acuta, 2–2½ lin. longa; gluma i. dorso subtiliter tuberculata, et sulcata, apice breviter acuminata et biaristulata, marginibus implicatis superne ciliolatis, callo brevissimo (vix ⅛ lin. longo) barbato; gl. ii. cymbiformis, primam subæquans, apice leviter aristata, arista vix 2 lin. longa; gl. iii. minuta (⅓ lin. longa), hyalina, late elliptica, obtusa; gl. iv. minuta (vix ¼ lin. longa), hyalina, breviter oblonga, apice in aristam debilem, imperfectam, purpureo-tinctam, 6–7 lin. longam, producta; palea absens; caryopsis anguste ovalis, pallide brunnea, glabra, 1 lin. longa. *Spicula pedicellata* quam sessilis paullo minor, ceterum similis, mox tabescens.

FORMOSA: on cliff, Takow (*A. Henry*, 1167!). Herb. Kew.

Near *A. vagans*, Rendle, resembling in habit the more delicate form of that species. It is distinguished by the narrower racemes and spikelets, the awned second glume, and the larger but weak and imperfect awn of the fertile glume.

Var. **minor**, *Rendle*, n. var. Rhacheos articuli pedicelli et spiculæ quam in specie breviores; *spicula sessilis* cum callo brevissimo vix 1½ lin. longa; gluma i. obtusa.

HONGKONG: Climbing in hedges near Aberdeen (*Hance*, 10746 in part!). Mus. Brit.; Herb. Kew.

9. **Andropogon fragilis**, *R. Br. Prodr.* p. 202.

Var. **sinensis**, *Rendle*, n. var. *Planta* annua quam typus minus robusta, cum spathis florentibus paullo angustioribus. *Spicula sessilis* gluma i. dorso ad medium pilosa, non velut in specie glabra.

KWANGTUNG: French Island, Whampoa (*Hance*, 1388 (?)!). Herb. Kew.

The type occurs in Queensland and North Australia.

The species is included by Hackel as a variety (δ) of *Andropogon brevifolius*, from which, however, it is, I think, quite distinct. Brown founded his species on plants collected during Captain Cook's first voyage by Banks and Solander at Endeavour River. Professor Hackel has probably not seen the original specimens at the British Museum; they differ from *A. brevi-*

folius in their more robust habit, subacute foliage-leaves, the broad spathe-like sheath enveloping the inflorescence (which suggested to the discoverers a more appropriate species-name than that adopted by Brown), and the stouter hairy racemes. Hackel describes the rhachis-joints as glabrous, whereas they bear a row of white hairs on the outer edge, the hairs being almost as long as the joint.

10. **Andropogon hirtiflorus,** *Kunth, Rév. Gram.* ii. p. 569, t. 198; *Hack. Mon. Androp.* p. 371; *Hook. f. Fl. Brit. Ind.* vii. p. 167.

Andropogon Pseudograya, *Steud. Syn. Gram.* p. 365; *Hack. Mon. Androp.* p. 370.

Andropogon zeylanicus, *Arn. ex Benth. Fl. Hongk.* p. 423.

Fokien: Amoy (*Hance*, 1388 in part!); Kwangtung: Whampoa (*Hance*, 1388 in part!), Cape Syngmun (*Wright*!); Hongkong (*Lamont*!). Mus. Brit.; Herb. Kew.

India, Ceylon, Tonkin; Madagascar, Tropical and South Africa; America.

11. **Andropogon intermedius,** *R. Br. Prodr.* p. 202; *Hack. Mon. Androp.* p. 485; *Hook. f. Fl. Brit. Ind.* vii. p. 175; *Pilger, in Engl. Jahrb.* xxix. (1900) p. 222.

Andropogon punctatus, *Roxb. Fl. Ind.* i. p. 264; *Trin. Sp. Gram. Ic.* t. 328; *Hance, in Journ. Linn. Soc., Bot.* xiii. (1873) p. 135; *Nees, in Hook. & Arn. Bot. Beechey's Voy.* p. 242.

Andropogon Vachellii, *Nees, l. c.* p. 243; *Benth. Fl. Hongk.* p. 423; *A. Henry, in Trans. Asiat. Soc. Jap.* xxiv. *Suppl.* (1896) p. 108.

Shantung (*Maingay*, 76!); Fokien: Amoy (*Seemann*, 547! *Hance*, 1078!); Formosa: Takow (*A. Henry*, 1039, 1094, 1152!), Apes' Hill (*Playfair*, 102!); Hupeh (*A. Henry*, 2373!), Ichang (*A. Henry*, 4096, 2766, 2374!); Yunnan: Mengtze, 4800 ft. (*A. Henry*, 9614!); Kwangtung (*Staunton*! *Sampson*, 299!), Macao (*Hance*, 1407 in part! *Vachell*!); Hongkong (*Hance*, 1407 in part! 10229! *Harland*, 801 in herb. *Hance*, 1078!), roadsides at Aberdeen (*Wilford*, 248!), ravine, Mt. Victoria (*Lamont*!). Mus. Brit.; Herb. Kew.

Caucasus, Tropical Asia to Australia, Pacific Islands, Tropical and South Africa.

The specimens vary considerably in size of panicle, length of panicle-branches, amount of secondary branching, size of spikelets, and presence or absence of a pit on the outer glume of the sessile spikelet; also in the presence or absence of hairs at the mouth of the sheath. I prefer to consider them all under the species rather than to attempt to assign them to the varieties proposed by Hackel; in such case it would be necessary to make other varieties.

12. **Andropogon Ischæmum**, *Linn. Sp. Pl.* p. 1047; *Hack. Mon. Androp.* p. 474, *et in Bull. Herb. Boiss*, sér. 2, iii. (1903) p. 501; *Trin. in Bunge, Enum. Pl.* p. 73; *Franchet, in Mém. Soc. Sci. Nat. Cherbourg*, xxiv. (1884) p. 273; *Hook. f. Fl. Brit. Ind.* vii. p. 171.

Chihli: Peking (*Bushell*! *Bretschneider*, 822!); Shingking: Bay of Talienwan (*Swinhoe*, in herb. *Hance*, 3452!); Shantung: Chefoo (*Forbes*, 404!); Kiangsi: Kiukiang (*Reid*, 9!); Fokien: Amoy (*Hance*, 1389, 3452 in part!); Formosa: Apes' Hill (*Playfair*, 272!), Takow (*A. Henry*, 761!); Shensi: Kusan (*Hugh*!); Kwangtung: Whampoa (*Hance*, 3452 in part!). Mus. Brit.; Herb. Kew.

South and Central Europe, Central to North Asia, North-west India, and in many parts of the tropics and subtropics of both hemispheres.

13. **Andropogon micranthus**, *Kunth, Rév. Gram.* i. p. 165, *et Enum.* i. p. 504; *Hack. Mon. Androp.* p. 488, *et in Bull. Herb. Boiss.* vii. (1899) p. 642, et sér. 2, iii. (1903) p. 501; *Hook. f. Fl. Brit. Ind.* vii. p. 178.

Andropogon capilliflorus, *Steud. Syn. Gram.* p. 397 (fide *Hackel*); *Franch. et Savat. Enum. Pl. Jap.* ii. p. 192; *Hack. in Engl. Bot. Jahrb.* vi. (1884) p. 50.

Andropogon montanus, *Benth. Fl. Hongk.* p. 423, non *Roxb.*

China: without locality (*Fortune*, 13!); Shingking: Kaichow to Kinchau (*Ross*, 278!); Shantung: Chefoo (*Forbes*! *Maingay*, 83!); Chekiang (*Staunton*!), Ningpo (*Faber*, 283!); Hupeh: Ichang (*A. Henry*, 26, 2373, 4285!), Changlo (*A. Henry*, 7815!); Szechuen: Omei, 3000 ft. (*Faber*, 1177!); Yunnan: Mengtze, grass mountains, 5500 ft. (*A. Henry*, 9615 A!); Kwangtung: Canton (*Lamont*), Whampoa (*Hance*, 1078 in part! *Sampson*, 289!); Hongkong (*Hance*, 1078 in part!). Mus. Brit.; Herb. Kew.

Japan; Old World tropics.

variety of *A. annulatus* and as occurring also in India. The Whampoa specimen is a more delicate plant, with slenderer stem and smaller narrower leaves than the one from Canton.

15. **Andropogon yunnanensis**, *Hack. Mon. Androp.* p. 440.

YUNNAN: Mosoyn (*Delavay*, 1782, fide *Hackel*).

I have seen no specimen.

1. **Cymbopogon Nardus**, *Rendle, in Cat. Afr. Pl. Welw.* ii. p. 155.

Andropogon Nardus, *Linn. Sp. Pl.* p. 1046; *Hack. Mon. Androp.* p. 601; *Hook. f. Fl. Brit. Ind.* vii. p. 205; *A. Henry, in Trans. Asiat. Soc. Jap.* xxiv. *Suppl.* (1896) p. 108.

Forma culta, *Hook. f. Fl. Brit. Ind.* vii. p. 206; subsp. *a.* genuinus, *Hack. l. c.* p. 602.

HONGKONG: cultivated (*Hance*, 255!). Mus. Brit.

Cultivated in Tropical Asia.

Subsp. **hamatulus**, *Hack. Mon. Androp.* p. 606.

Andropogon hamatulus, *Nees, in Hook. & Arn. Bot. Beechey's Voy.* p. 244.

FORMOSA: Takow (*A. Henry*, 1009, 1921!), Apes' Hill, Takow (*A. Henry*, 1021!); KWANGTUNG: Danes Island, below Canton (*Vachell*, 416! *Herb. Cantab.*); HONGKONG (*Champion*, 541!); CHINA: without locality (*Millett*!). Herb. Kew.

Philippines.

Subsp. **marginatus**, var. Goeringii, *Hack. Mon. Androp.* p. 607, *et in Bull. Herb. Boiss.* vii. p. 642, et sér. 2, iii. (1903) p. 501; *Palibin, in Act. Hort. Petrop.* xix. (1901) p. 30.

Andropogon Goeringii, *Steud. in Flora*, xxxi. (1846) p. 22.

Andropogon Schœnanthus, *Miq. in Ann. Mus. Bot. Lugd.-Bat.* ii. p. 290; *Franch. et Savat. Enum. Pl. Jap.* ii. p. 191.

CHINA: without locality (*Fortune*, 99!); SHANGTUNG (*Maingay*, 79!), Chefoo (*Forbes*!); KIANGSU: Shanghai (*Faber*, 296!), Fengwangshan (*Forbes*, 494!); CHEKIANG: Chusan and Ningpo (*Home*!), Ningpo Mts. (*Faber*, 291!); FORMOSA (*Swinhoe*!), South Cape (*A. Henry*, 1309!), Apes' Hill, Takow (*Playfair*, 35, 193, 237!); KWANGTUNG (*Ford*, 204!), Lienchau, Canton (*Lamont*!); HONGKONG: Mount Victoria (*Lamont*! *Forbes*, 493! *Seemann*, 754!); LUCHU ARCHIPELAGO (*Wright*!). Mus. Brit.; Herb. Kew.

Japan.

Var. **villosulus**, *Hack. Mon. Androp.* p. 490; *Hook. f. Fl. Brit. Ind.* vii. p. 179.

Andropogon villosulus, *Steud. Syn. Gram.* p. 397.

YUNNAN (*A. Henry*, 11256!); HONGKONG (*Sampson*, 1902 in part!). Herb. Kew. - ?

North India.

14. Andropogon vagans, *Rendle*, n. sp.

Planta divaricata, culmi demum erecti, teretes, in speciminibus incompleti, ad 20 poll. longi et 1 lin. crassi, internodia superiora vaginas superantia, striata, et plus minus pilosula. *Foliorum* vaginæ ad internodia arcte applicitæ, glabræ, superne autem pilosulæ, nodis puberulis; ligula truncata ad $\frac{3}{4}$ lin. longa; laminæ anguste lineari-lanceolatæ, basi valde angustatæ, superne acuminatæ pæne ad aristulam attenuatæ, 3-6 poll. longæ, 3–8 lin. latæ, planæ, herbaceæ, dorso puberulæ, et nervo mediano albo-lineatæ. *Racemi* 4–10, dense fastigiati, 2–4$\frac{3}{4}$ poll. longi, axem communem rarius $\frac{1}{2}$ poll. excedens; spiculæ densæ, rhacheos articuli et pedicelli in marginibus pilosi, haud caniculati, hi paullo breviores, 1 lin. longi. *Spicula sessilis* cum callo brevissimo barbato 1$\frac{1}{2}$ lin. longa, calli pili haud medium glumæ attingentes; gluma i. ovali-oblonga, obtusa, marginibus implicatis, carinulis superne ciliatis, dorso binervis, glabra et per longitudinem sulcata; gl. ii. cymbiformis, primam subæquans, mutica, carina in parte superiore scabridula; gl. iii. ovata, hyalina, enervis, longitudine vix plus quam $\frac{1}{2}$ lin.; gl. iv. brevissima, hyalina, breviter bilobulata, arista e sinu perfecta, 3 lin. longa. *Spicula pedicillata* ☿ sessili similis, sed minor (1$\frac{1}{4}$ lin. longa) lanceolata et cum arista breviore (vix 2 lineas long. excedens).

A distinct species in the alliance of *A. Ischæmum*, but distinguished by its habit, puberulous internodes, denser less hairy inflorescence, bisexual stalked flower, absence of a channel on the pedicel, &c.

KWANGTUNG: Canton, ravine of the White Cloud Hill (*Sampson*, 300!), Whampoa (*Hance*, 10746 in part!). Mus. Brit.; Herb. Kew.

Both the plants cited were distributed as *Andropogon Bladhii*, Retz., of which I have not seen the type. It is, however, described as having unawned and neuter stalked spikelets and long-awned sessile spikelets, and is generally regarded as a

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BOTANY

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B. DAYDON JACKSON,
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Vol. XXXV. is still in course of issue, the Parts already published being Nos. 242–247. Part 248 will complete the volume.

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THE JOURNAL

OF

THE LINNEAN SOCIETY.

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P. Chalmers Mitchell, M.A., F.Z.S.
A. B. Rendle, M.A., D.Sc.
A. G. Tansley, M.A.
Prof. H. Marshall Ward, F.R.S.
Dr. A. Smith Woodward, F.R.S.

2. **Cymbopogon Schœnanthus**, *Spreng. Pl. Min. Cogn. Pug.* ii. p. 14.

Andropogon Schœnanthus, *Linn. Sp. Pl.* p. 1046; *Lour. Fl. Cochinch.* p. 793; *Debeaux, Fl. Tchef.* p. 162; *Franchet, in Mém. Soc. Sci. Nat. Cherbourg,* xxiv. (1884) p. 273.

Var. **cæsius**, *Hack. Mon. Androp.* p. 610; *Hook. f. Fl. Brit. Ind.* vii. p. 205.

Andropogon cæsius, *Nees, in Hook. & Arn. Bot. Beechey's Voy.* p. 244.

Andropogon Martini, *Benth. Fl. Hongk.* p. 424, non *Roxb.*

Kwangtung: Macao (*Abel, Vachell* !), Whampoa (*Robertson, Wright* ! *Millett* !), Lofaushan (*Ford*, 127 !); Hongkong: wild (*Hance*, 254 !), Cumsingmoon (*Wright* !); Hainan (*A. Henry*, 8287 !). Mus. Brit.; Herb. Kew.

Arabia, Afghanistan, India.

1. **Themeda gigantea**, *Hack. Mon. Androp.* p. 670.

Anthistiria gigantea, *Cav. Icon.* v. p. 35; *Hook. f. Fl. Brit. Ind.* vii. p. 216.

Subsp. **caudata**, *Hack. Mon. Androp.* p. 676; *Hook. f. Fl. Brit. Ind.* vii. p. 217.

Androscepia gigantea, var. armata, *Anderss. in Nov. Act. Soc. Sci. Upsal.* ser. 3, ii. (1856) p. 248.

Anthistiria caudata, *Nees, in Hook. & Arn. Bot. Beechey's Voy.* p. 245.

Anthistiria ciliata, *A. Henry, in Trans. Asiat. Soc. Jap.* xxiv. *Suppl.* (1896) p. 108.

China: without locality (*Staunton* !); Formosa: Bankinsing Mountains (*A. Henry*, 1518 !); Yunnan: Mengtze Mountains, 5500 ft. (*A. Henry*, 9459 !); Kwangtung: near Canton (*Hance*, 6489 !), Canton, common on the hills, sometimes 8 ft. high (*Sampson*, 276 !). Mus. Brit.; Herb. Kew. – ?

Mountains of North India.

Subsp. **villosa**, *Hack. Mon. Androp.* p. 675; *Hook. f. Fl. Brit. Ind.* vii. p. 217.

Anthistiria villosa, *Lam. Illustr.* t. 841. fig. 3; *Poir. Encycl. Suppl.* i. p. 396.

Hupeh: So Tunghu (*A. Henry*, 7696 !), Ichang (*A. Henry*, 980 !); Hainan: Nartaisee (herb. *Ford*, 483 !). Herb. Kew.

India, Malaya.

2. **Themeda triandra**, *Forsk. Fl. Æg.-Arab.* p. 178.

Themeda Forskalii, *Hack. Mon. Androp.* p. 659.

Anthistiria ciliata, *Retz. Obs.* iii. p. 11 (non *Linn. f.*), *Baker & Moore,* *in Journ. Linn. Soc., Bot.* xvii. (1879) p. 388; *Franchet, Pl. David.* i. p. 328.

Anthistiria Forskalii, *Kunth, Rév. Gram.* p. 162.

Anthistiria imberbis, *Retz. Obs.* iii. p. 11; *Hook. f. Fl. Brit. Ind.* vii. p. 211.

Var. **major**, subvar. **japonica**, *Hack. Mon. Androp.* p. 662, *et in Bull. Herb. Boiss.* vii. (1899) p. 642, et sér. 2, iii. (1903) p. 501; *Palibin, in Act. Hort. Petrop.* xix. (1901) p. 131; *Komarow, ibid.* xx. (1901) p. 251.

Andropogon ciliatum, *Thunb. Fl. Jap.* p. 40.

Anthistiria arguens, *Franchet, Pl. David.* i. p. 328 (non *Willd.*), *et in Mém. Soc. Sci. Nat. Cherbourg*, xxiv. (1884) p. 272.

Anthistiria arguens, *Willd.*, var. japonica, *Anderss. in Nov. Act. Soc. Sci. Upsal.* ser. 3, ii. (1856) p. 236; *Franch. et Savat. Enum. Pl. Jap.* ii. p. 191.

Anthistiria japonica, *Willd. Sp. Pl.* iv. p. 901; *Trin. in Bunge, Enum. Plant. Chin. Bor.* p. 73.

China: without locality (*Seemann*! *Bradley*!); Chihli: mountains west of Peking (*Bretschneider*, 838!), Peking (*Williams*, in herb. *Hance*, 12758! *David*, 593! *Bushell*!); Shingking: Chienshan (*Ross*, 470!), Kaichow to Kinchow (*Ross*, 277!); Shantung: Chefoo (*Forbes*! *Hance*, in herb. *Forbes*, 1444 in part! *Maingay*, 71!); Chekiang: Chusan and Ningpo (*Home*!); Kiangsi: Kiukiang (*Reid*, 7!); Kiangsu: Chinkiang (*Carles*, 502, 503!), Shanghai (*Seemann*!); Hupeh: Ichang (*A. Henry*, 959, 4091!); Shensi: Leunteon, Fenghosan (*Hugh*!), Kusan, Kisanshien (*Hugh*!), Mt. Laoysan (*Hugh*!); Yunnan: Mengtze, grass mountains, 5500 ft. (*A. Henry*, 10996!); Corea: Soul (*Sontag*!). Mus. Brit.; Herb. Kew.

The species is widely distributed in the warmer parts of the Old World.

1. **Pseudanthistiria heteroclita**, *Hook. f. Fl. Brit. Ind.* vii. p. 219.

Andropogon heteroclitus, *Nees, Fl. Afr. Austr.* p. 115; *Hack. Mon. Androp.* p. 400.

Anthistiria heteroclita, *Roxb. Fl. Ind.* i. p. 249; *Hance, in Journ. Linn. Soc., Bot.* xiii. (1873) p. 135.

Hongkong (*Hance*, 9667!). Mus. Brit.; Herb. Kew.

India.

1. **Germainia capitata**, *Bal. & Poitr. in Bull. Soc. Hist. Nat. Toulouse*, vii. (1873) p. 344; *Hack. Mon. Androp.* p. 686.

Anthistiria caudata, *Hance, in Journ. Bot.* xvi. (1878) p. 234, non *Nees.*

KWANGTUNG: Pakwan Mountains above Canton (*Hance*, 14302!), White Cloud Hills, Canton (*Sampson*, 1162!). Mus. Brit.; Herb. Kew.

Cochin-China.

1. **Apluda mutica**, *Linn. Sp. Pl.* p. 82; *Benth. Fl. Hongk.* p. 422; *A. Henry, in Trans. Asiat. Soc. Jap.* xxiv. *Suppl.* (1896) p. 108; *Hack. in Bull. Herb. Boiss.* vii. (1899) pp. 721, 723.

Apluda varia, subsp. mutica, *Hack. Mon. Androp.* p. 198; *Hook. f. Fl. Brit. Ind.* vii. p. 150.

CHINA: without locality (*Bradley*! *Macartney*! *Willett*!); FOKIEN: Amoy (*Hance*, 1003!); FORMOSA: Tamsui (*Oldham*, 625!), Takow (*A. Henry*, 743, 1114!); KWANGTUNG: Lienchau, Canton (*Lamont*!), Whampoa (*Wright*!), Canton (*Sampson*, 292!), Macao and adjacent islands (*Vachell*, 42!), hills, Pybus Island (*Wright*!); HONGKONG (*Hance*, ex herb. *Harland*, 588, 1003! *Ford*, 597!), Causeway Bay (*Ford*, 600!); HAINAN (*A. Henry*, 52!); LUCHU ARCHIPELAGO: Okinawa (*Tashiro*, fide *Hack. in Bull. Herb. Boiss.* vii. p. 721). Mus. Brit.; Herb. Kew.

India, Malaya, Australia, Pacific Islands.

Var. **aristata**, *Hack. Mon. Androp.* p. 199; *Hook. f. Fl. Brit. Ind.* vii. p. 151.

Apluda aristata, *Linn. Amœn. Acad.* iv. p. 303.

YUNNAN: Mengtze Ravine, 4700 ft. (*A. Henry*, 9616!). Herb. Kew.

Socotra, India, Malaya.

Tribe PHALARIDEÆ.

1. **Phalaris arundinacea**, *Linn. Sp. Pl.* p. 55; *Trin. in Bunge, Enum. Pl. Chin. Bor.* p. 69; *Franch. Pl. David.* i. p. 328; *Franch. et Savat. Enum. Pl. Jap.* ii. p. 157; *Hack. in Bull. Herb. Boiss.* vii. (1899) p. 646, et sér. 2, iii. (1903) p. 502; *Hook. f. Fl. Brit. Ind.* vii. p. 221; *Komarow, in Act. Hort. Petrop.* xx. (1901) p. 263.

CHIHLI: Jehol (*David*, in herb. *Hance*, 3574!); CHEKIANG:

Ningpo, Shanghai (*Faber* !); SHINGKING: between Tungcheshien and Maoershan, Yaloo River (*James* !). Mus. Brit.; Herb. Kew.

Japan; North temperate regions.

1. **Anthoxanthum Hookeri,** *Rendle.*

Ataxia Hookeri, *Griseb. in Goett. Nachr.* 1868, p. 77.

Hierochloe Hookeri, *Maxim. in Bull. Acad. Pétersb.* xii. (1888) p. 930; *Hook. f. Fl. Brit. Ind.* vii. p. 223.

SZECHUEN: West Szechuen and Tibetan frontier (*Pratt*, 889 !); YUNNAN: Mengtze, grass mountains, at 5000 feet (*A. Henry*, 10517 !). Mus. Brit.

North India (Himalayas).

I agree with Dr. Stapf in regarding Robert Brown's genus *Ataxia* as more closely allied to *Anthoxanthum* than to *Hierochloe.*

1. **Hierochloe borealis,** *Roem. et Schult. Syst.* ii. p. 513; *Trin. in Bunge, Enum. Pl. Chin. Bor.* p. 70; *Palibin, in Act. Hort. Petrop.* xix. (1901) p. 131; *Franch. et Savat. Enum. Pl. Jap.* ii. p. 157; *Hack. in Bull. Herb. Boiss.* vii. (1899) p. 646, et sér. 2, iii. (1903) p. 502; *Regel, Tent. Fl. Ussur.* p. 169; *Maxim. Prim. Fl. Amur.* p. 322.

Hierochloe Bungeana, *Trin. in Mém. Acad. Pétersb.* sér. 5, vi. II. (1839) p. 82.

CHEKIANG: Tientai Mountains (*Faber*, 73 !). Herb. Kew.

Japan, North Asia, and North temperate regions.

2. **Hierochloe glabra,** *Trin. in Spreng. Neue Entdeck. Pflanz.* ii. (1821) p. 66.

Hierochloe dahurica, *Trin. in Mém. Acad. Pétersb.* sér. 5, v. II. (1839) p. 80; *Hance, in Journ. Linn. Soc., Bot.* xiii. (1873) p. 91; *Maxim. Prim. Fl. Amur.* p. 322; *Turcz. Fl. Baic.-Dahur.* ii. p. 296; *Franchet, Pl. David.* i. p. 329, *et in Mém. Soc. Sci. Nat. Cherbourg,* xxiv. (1884) p. 267.

Hierochloe borealis, *Baker & Moore, in Journ. Linn. Soc., Bot.* xvii. (1879) p. 388, non *Roem. et Schult.*

CHIHLI: Mt. Pohuashan, west of Peking (*Bretschneider*, in herb. *Forbes*, 484 ! and in herb. *Hance* !), Jehol (*David*, in herb. *Hance* !); SHINGKING: hills near Takushan (*Ross*, 56 !), Corean Gate (*Ross*, 422 !), Peiling (*Webster*, 190 !). Mus. Brit.; Herb. Kew.

North Asia.

Tribe AGROSTIDEÆ.

1. **Aristida Adscenscionis**, *Linn. Sp. Pl.* p. 82; *Steud. Syn. Gram.* p. 139; *Hook. f. Fl. Brit. Ind.* vii. p. 224.

Aristida cærulescens, *Desf. Fl. Atlant.* i. p. 109, t. 21. fig. 2; *Franchet, Pl. David.* i. p. 329.

Aristida vulpioides, *Hance, in Ann. Sci. Nat.* sér. 5, v. (1866) p. 251.

CHIHLI: Peking (*Williams*, in herb. *Hance*, 11465 !), between Pekin and Jehol (*Staunton* !); NORTH CHINA (*Archer* !). Mus. Brit.; Herb. Kew.

India, and widely distributed in the warmer parts of the earth.

2. **Aristida chinensis**, *Munro, in Proc. Amer. Acad.* iv. (1860) p. 363; *Benth. Fl. Hongk.* p. 427.

KWANGTUNG: Lienchau, Canton (*Lamont* !), Whampoa (*Wright* ! *Hance*, 1241 in part !); HONGKONG (*Hance*, 1241 in part ! *Harland* !), Cumsingmoon (*Wright* !). Mus. Brit.; Herb. Kew.

3. **Aristida Cumingiana**, *Trin. et Rupr. in Mém. Acad. Pétersb.* sér. 6, vii. (1843) p. 141; *Steud. Syn. Gram.* p. 140; *Hance, in Journ. Linn. Soc., Bot.* xiii. (1873) p. 135; *Hook. f. Fl. Brit. Ind.* vii. p. 224.

Aristida capillacea, *Cav. Icon.* v. p. 43, t. 468. fig. 1, non *Lam.*

Chætaria trichodes, *Nees, in Hook. Kew Journ.* ii. (1850) p. 101.

KWANGTUNG: dry grassy slopes near Canton (*Sampson*, 1194 !); HONGKONG: steep rocks near sea between Aberdeen and Hongkong (*Sampson*, in herb. *Hance*, 15057 ! *Lamont* !). Mus. Brit.; Herb. Kew.

North India, Philippines.

1. **Stipa Bungeana**, *Trin. in Bunge, Enum. Pl. Chin. Bor.* p. 70, *et in Mém. Acad. Pétersb.* sér. 6, vii. (1843) p. 61; *Steud. Syn. Gram.* p. 129; *Franchet, Pl. David.* i. p. 330.

CHIHLI: Kalgan, by the Great Wall (*Williams*, in herb. *Hance*, 13831 in part !), Peking (*Bretschneider*, 832 !). Herb. Kew.

2. **Stipa capillata**, *Linn. Sp. Pl.* ed. 2, p. 116; *Steud. Syn. Gram.* p. 130; *Franchet, Pl. David.* i. p. 330; *Turcz. Fl. Baic Dahur.* ii. p. 303; *Hook. f. Fl. Brit. Ind.* vii. p. 230.

CHIHLI: near Peking (*David*, 501 !). Herb. Kew.

Himalaya and temperate Asia; Europe.

3. **Stipa consanguinea,** *Trin. et Rupr. e descript. in Mém. Acad. Pétersb.* sér. 6, vii. (1843) p. 78; *Steud. Syn. Gram.* p. 130.

SZECHUEN: Tongolo (*Soulié*, 341!). Herb. Kew.

Central Asia.

4. **Stipa (§ Lasiagrostis) Henryi,** *Rendle*, n. sp.

Herba perennis, rhizomate valido 4 lin. crasso, glabra; culmi et axes foliosi conferti numerosi, illi ad 2 ped. alti, basi vaginis scarioso-membranaceis sæpe tribus circumdati; internodia elongata gracilia tria, basi $\frac{1}{2}$ ad $\frac{4}{5}$ lin. crass. *Foliorum* vaginæ internodia sæpe vix æquantes, striatæ, sæpe purpureo-tinctæ; ligula obsoleta; lamina linearis, basi angustata et apice longe attenuata, plana vel interdum siccitate convoluta, plus quam pedalis longa et 2 lin. lata, sæpius autem angustior, cum nervo mediano in facie superiore prominente. *Panicula* subelongata, ad 11 poll. longa, rami capillares ascendentes, ad 5 poll. longi, plures in nodis rhacheos distantibus lateraliter fasciati, ramuli pauci-spiculiferi; pedicellus spiculam æquans vel superans; spiculæ $1\frac{2}{3}$–$1\frac{3}{4}$ lin. longæ, obtuse lanceolatæ. *Gluma* i. membranacea translucens, cum nervis tribus interdum duobus viridibus ad apicem haud porrectis, lineata, elliptico-ovata obtusa, spiculam æquans; gl. ii. primæ similis at paullo brevior; gl. florens subcoriacea, anguste ovalis (quum convoluta), aperta late oblonga, trinervis, apice breviter bilobulata, dorso minute puberula, cum callo breve (vix $\frac{1}{6}$ lin.) et breviter piloso, $1\frac{1}{2}$ lin. longa; arista debilis, continua, 5 lin. longa, puberula; palea quam gluma florens paullo brevior; lodiculæ 2, oblongæ, basi angustatæ, $\frac{1}{4}$ ad $\frac{3}{8}$ lin. longæ; antheræ 3, lineares, haud apice barbatæ, 1 lin. longæ.

HUPEH: Ichang (*A. Henry*, 3444!); SZECHUEN: South Wushan (*A. Henry*, 5530!), Yangtzekiang, Kweichau (*Faber*, 1160!). Herb. Kew.

Near *S. splendens*, Trin., but differing in its less robust habit, obsolete ligule, subequal barren glumes, and glabrescent fertile glume. There are occasionally traces of bearding on the anther-tips.

5. **Stipa mongholica,** *Turcz. ex Trin. in Bull. Sci. Acad. Pétersb.* i. (1836) p. 67; *Steud. Syn. Gram.* p. 132; *Hook. f. Fl. Brit. Ind.* vii. p. 229.

Lasiagrostis mongholica, *Trin. et Rupr. in Mém. Acad. Pétersb.* sér. 6, vii. (1843) p. 87.

Ptilagrostis mongolica, *Griseb. in Ledeb. Fl. Ross.* iv. p. 447; *Turcz. Fl. Baic.-Dahur.* ii. I. p. 302.

SHENSI: Mt. Miaowansan (*Hugh*!). Mus. Brit.

Himalaya, North and Central Asia; Western North America.

6. **Stipa sibirica**, *Lam. Illustr.* i. p. 158; *Steud. Syn. Gram.* p. 129; *Hance, in Journ. Linn. Soc., Bot.* xiii. (1873) p. 91; *Franchet, Pl. David.* i. p. 330, *et in Mém. Soc. Sci. Nat. Cherbourg*, xxiv. (1884) p. 268; *Hack. in Bull. Herb. Boiss.* sér. 2, iii. (1903) p. 502; *Maxim. Prim. Fl. Amur.* p. 325; *Turcz. Fl. Baic.-Dahur.* p. 302; *Hook. f. Fl. Brit. Ind.* vii. p. 231.

Stipa pekinensis, *Hance, in Journ. Bot.* xv. (1877) p. 268; *Franchet, Pl. David.* i. p. 331.

CHIHLI: Kupehkan (*Hance*, 13831 in part!), Peking (*Bretschneider*, 834! *Williams*, in herb. *Hance*, 13831 in part!); SHANTUNG: Chefoo (*Forbes*! *Faber*, 1529!), (*Maingay*, 75!); CHEKIANG: Kaichow to Kinchow (*Ross*, 276!). Mus. Brit.; Herb. Kew.

Himalaya, North Asia; Western North America.

[**Stipa Aliciæ**, *Kanitz, in Math. Naturw. Ber. Ungarn*, iii. (1884) p. 11 (nomen).]

I have seen no specimen.

1. **Oryzopsis obtusa**, *Stapf, in Hook. Icon.* t. 2393; *Pilger, in Engl. Bot. Jahrb.* xxix. (1900) p. 224.

HUPEH: near Ichang (*A. Henry*, 3507!), Nanto and mountains to northward (*A. Henry*, 3896!). Mus. Brit.; Herb. Kew.

1. **Milium effusum**, *Linn. Sp. Pl.* p. 61; *Steud. Syn. Gram.* p. 34; *Maxim. Prim. Fl. Amur.* p. 325; *Turcz. Fl. Baic.-Dahur.* ii. p. 300; *Miq. in Ann. Mus. Bot. Lugd.-Bat.* ii. p. 274; *Franch. et Savat. Enum. Pl. Jap.* ii. p. 160; *Hack. in Bull. Herb. Boiss.* vii. (1899) p. 647; *Komarow, in Act. Hort. Petrop.* xx. (1901) p. 368; *Loureiro, Fl. Cochinch.* p. 49; *Hook. f. Fl. Brit. Ind.* vii. p. 235.

SHINGKING: Chienshan (*Ross*, 575!); HUPEH: Patung district (*A. Henry*, 4032, 5413 !); SZECHUEN (*A. Henry*, 5661 !), Mt. Omei (*A. Henry*, 1161 !). Mus. Brit.; Herb. Kew.

Japan, Cochin China; Himalaya; Europe; Eastern North America.

1. **Crypsis aculeata,** *Ait. Hort. Kew.* i. p. 48; *Hance, in Journ. Linn. Soc., Bot.* xiii. (1873) p. 91; *Franchet, Pl. David.* i. p. 331, *et in Mém. Soc. Sci. Nat. Cherbourg*, xxiv. (1884) p. 267; *Debeaux, Fl. Tchef.* p. 157; *Komarow, in Act. Hort. Petrop.* xx. (1901) p. 270.

CHIHLI: Peking (*David*, in herb. *Hance* !). Mus. Brit.

Europe; temperate Asia; North Africa.

1. **Phleum alpinum,** *Linn. Sp. Pl.* p. 59; *Hack. in Bull. Herb. Boiss.* vii. (1899) p. 647; *Hook. f. Fl. Brit. Ind.* vii. p. 236; *Komarow, in Act. Hort. Petrop.* xx. (1901) p. 271.

SHENSI: Mt. Miaowansan (*Hugh* !). Mus. Brit.

North Asia, Japan, Himalayas; Arctic and Alpine regions.

2. **Phleum asperum,** *Jacq. Collect.* i. p. 110; *Pilger, in Engl. Bot. Jahrb.* xxix. (1900) p. 224; *Hack. in Bull. Herb. Boiss.* vii. (1899) p. 647; *Hook. f. Fl. Brit. Ind.* vii. p. 237.

SHENSI: Paoki, Chifengsan (*Hugh* !), plain of Hukiascien (*Hugh* !), Laoshien and Kasan (*Hugh* !), Mt. Laoysan, Tcuizscien (*Hugh* !), Mt. Kanysan (*Hugh* !); KIANGSU: Shanghai (*Maingay*, 566, 716, 718 !). Mus. Brit.; Herb. Kew.

Japan, Himalaya, Western Asia, Europe.

1. **Alopecurus æqualis,** *Sobol. Fl. Petropol.* (1799) p. 16.

Alopecurus aristulatus, *Michx. Fl. Bor.-Am.* i. p. 43 (1803); *Hook. f. Fl. Brit. Ind.* vii. p. 238.

Alopecurus fulvus, *Smith, Engl. Bot.* xxi. t. 1467 (1805); *Hack. in Bull. Herb. Boiss.* vii. (1899) p. 648, et sér. 2, iii. (1903) p. 502; *Franchet, Pl. David.* i. p. 329; *Palibin, in Act. Hort. Petrop.* xix. (1901) p. 131; *Komarow, ibid.* xx. (1901) p. 271.

Alopecurus geniculatus, *Linn. Sp. Pl.* p. 60 in part; *Benth. Fl. Hongk.* p. 408; *Trin. in Bunge, Enum. Pl. Chin. Bor.* p. 69; *Baker & Moore, in Journ. Linn. Soc., Bot.* xvii. (1879) p. 388; *Pilger, in Engl. Bot. Jahrb.* xxix. (1900) p. 224; *Thunb. Fl. Jap.* p. 49; *Miq. in Ann. Mus. Bot. Lugd.-Bat.* ii. p. 277; *Franch. et Savat. Enum. Pl. Jap.* ii. p. 158.

SHINGKING: West of Sarhoo (*Ross*, 361!), near Moukden (*James*!); KIANGSU: Chinkiang (*Maries*!), Shanghai (*Faber*!); CHEKIANG: Taihoo Lake (*Forbes*, 483!); FORMOSA (*Oldham*, 599!); HUPEH: Ichang (*A. Henry*, 3475!), Patung (*A. Henry*, 4733!); HONGKONG (*Lamont*! *Wright*! *Hance*, 1087! *Wilford*, 259!); CHINA: without locality (*Staunton*!). Mus. Brit.; Herb. Kew.

Japan; North temperate regions.

2. **Alopecurus agrestis,** *Linn. Sp. Pl.* ed. 2, p. 89; *Steud. Syn. Gram.* p. 149; *Benth. Fl. Hongk.* p. 407; *Hook. f. Fl. Brit. Ind.* vii. p. 239; *Ledeb. Fl. Ross.* iv. p. 465.

KIANGSU: Shanghai (*Maingay*, 719!). Herb. Kew.

Europe; Western and Northern Asia; India.

3. **Alopecurus japonicus,** *Steud. Syn. Gram.* p. 149; *Miq. in Ann. Mus. Bot. Lugd.-Bat.* ii. p. 277; *Franch. et Savat. Enum. Pl. Jap.* ii. p. 158; *Hack. in Bull. Herb. Boiss.* vii. (1899) p. 648.

Alopecurus malacostachyus, *A. Gray, in Perry's Exped. Japan*, ii. p. 328.

Alopecurus agrestis, *Pilger, in Engl. Bot. Jahrb.* xxix. (1900) p. 224, non *Linn.*

HONGKONG (*Hance*, 1153!); HUPEH (*A. Henry*, 7869!), Patung (*Wilson*, 1661!). Mus. Brit.; Herb. Kew.

Japan.

1. **Muehlenbergia Hugelii,** *Trin. in Mém. Acad. Sci. Pétersb.* sér. 6, vi. (1841) p. 293; *Hack. in Bull. Herb. Boiss.* vii. (1899) p. 647, et sér. 2, iii. (1903) p. 502.

Muehlenbergia viridissima, *Nees, ex Steud. Syn. Gram.* p. 178; *Hook. f. Fl. Brit. Ind.* vii. p. 259; *Franchet, Pl. David.* ii. p. 143; *Pilger, in Engl. Bot. Jahrb.* xxix. (1900) p. 224.

KIANGSI: Kiukiang (*Shearer*!); HUPEH: Chienshih (*A. Henry*, 7410!), Fang (*A. Henry*, 6720!), Ichang (*A. Henry*, 4289!), Patung (*A. Henry*, 2513!). Mus. Brit.; Herb. Kew.

Japan, North Asia, Himalaya, Tibet, Java.

2. **Muehlenbergia japonica,** *Steud. Syn. Gram.* p. 422; *Hack. in Bull. Herb. Boiss.* vii. (1899) p. 647, sér. 2, iii. (1903) p. 502; *Franch. et Savat. Enum. Pl. Jap.* ii. p. 165.

COREA: Roadsides near Fusan (*Faurie*, 805, fide *Hackel*).
Japan.
I have seen no specimen.

1. **Polypogon littoralis**, *Smith, Compend. Fl. Brit.* p. 13; *Steud. Syn. Gram.* p. 184; *Benth. Fl. Hongk.* p. 427; *Debeaux, Fl. Shanghai*, p. 70; *Pilger, in Engl. Bot. Jahrb.* xxix. (1900) p. 224; *Palibin, in Act. Hort. Petrop.* xix. (1901) p. 131; *Miq. in Ann. Mus. Bot. Lugd.-Bat.* ii. p. 278; *Franch. et Savat. Enum. Pl. Jap.* ii. p. 167; *Hook. f. Fl. Brit. Ind.* p. 246.

KIANGSU: Shanghai (*Faber*, 306! *Maingay*, 720!); FOKIEN (*Grijs*, in herb. *Hance*, 6681 in part!); SHENSI: Kusan (*Hugh*!); HUPEH: Ichang (*A. Henry*, 190!); YUNNAN: Mengtze, beside streamlet at 4500 feet (*A. Henry*, 10556!), ditto in dry rice-field at 4500 feet (*A. Henry*, 10246!), ditto on rocks in streamlet at 4600 feet (*A. Henry*, 10246 A!); KWANGTUNG: Canton (*Parry*, in herb. *Hance*, 6681 in part!); HONGKONG (*Harland*, 711!); COREA: Port Hamilton (*Wilford*, 702!); CHINA: East Coast (*Home*!). Mus. Brit.; Herb. Kew.

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Japan, Himalaya; temperate and subtropical regions.

2. **Polypogon monspeliensis**, *Desf. Fl. Atl.* i. p. 67; *Steud. Syn. Gram.* p. 184; *Trin. in Bunge, Enum. Pl. Chin. Bor.* p. 70; *Franchet, in Pl. David.* i. p. 332; *Kanitz, in Math. Naturw. Ber. Ungarn*, iii. (1884) p. 8; *Miq. in Ann. Mus. Bot. Lugd.-Bat.* ii. p. 278; *Franch. et Savat. Enum. Pl. Jap.* ii. p. 167; *Hack. in Bull. Herb. Boiss.* vii. (1899) p. 618; *Hook. f. Fl. Brit. Ind.* vii. p. 245.

KIANGSU: Fengwangshan (*Forbes*, 488!), Woosing River, Shanghai (*Perry*!); FOKIEN (*Grijs*, in herb. *Hance*, 3449!); FORMOSA: Tamsui (*Oldham*, 610!); CHINA: no locality (*Oldham*, 936!). Mus. Brit.; Herb. Kew.

Japan, India, and widely spread in tropical and temperate regions.

1. **Garnotia patula**, *Munro, ex Benth. Fl. Hongk.* p. 416.

Garnotia drymeia, *Hance, in Ann. Sci. Nat.* sér. 4, xviii. (1862) p. 233.

Berghausia patula, *Munro, in Proc. Amer. Acad.* iv. (1860) p. 362.

Miquelia barbulata, *Nees, in Nov. Act. Nat. Cur.* xix. *Suppl.* i. (1843) p. 178.

HONGKONG (*Hance*, 1009 in part! *Harland*, 692, in herb. *Hance*, 1009 in part! *Wright*!); KWANGTUNG: Canton (*Sampson*, 1783! and in herb. *Hance*, 8135!). Mus. Brit.; Herb. Kew.

Var. **mutica**, *Rendle*.

Garnotia stricta, *Benth. Fl. Hongk.* p. 416, non *Brongn.*

Berghausia mutica, *Munro, in Proc. Amer. Acad.* iv. (1860) p. 362.

HONGKONG (*Wright*!). Herb. Kew.

1. **Sphærocaryum elegans**, *Nees, ex Steud. Nom.* ed. 2, ii. p. 620; *Hook. f. Fl. Brit. Ind.* vii. p. 246.

Graya elegans, *Nees, ex Steud. Syn. Gram.* p. 119.

Isachne pulchella, *Roth, Nov. Pl. Sp.* p. 58; *Benth. Fl. Hongk.* p. 414.

Panicum pulchellum, *Spreng. Syst.* i. p. 322.

SZECHUEN: Mt. Uomisan, Tcentosen (*Hugh*!); KWANGTUNG: swamps near Canton (*Sampson*, 1203!); HONGKONG (*Harland*, 718, in herb. *Hance*, 1005!), waste places, Government Gardens (*Lamont*!). Mus. Brit.; Herb. Kew.

Hills of Northern India, Ceylon, Mergui, Malacca, Singapore.

1. **Sporobolus diandrus**, *Beauv. Agrost.* p. 26; *Hook. f. Fl. Brit. Ind.* vii. p. 247.

Agrostis diandra, *Retz. Obs.* v. p. 19.

Vilfa diandra, *Steud. Syn. Gram.* p. 155.

FORMOSA (*Campbell*!), Apes' Hill, summit 1100 feet (*A. Henry*, 1106!), Takow (*Playfair*! *A. Henry*, 1044!), South Cape (*Schmürer*, in coll. *A. Henry*, 625!); KWANGTUNG: Macao (*Abel*!), Pakhoi (*Playfair*!). Mus. Brit.; Herb. Kew.

India, Malaya.

2. **Sporobolus Hancei**, *Rendle*, n. sp.

Herba perennis cæspitosa, glabra, 8–13 poll. alta; culmus erectus vel basi geniculato-ascendens, 3-nodus, basi ad $\frac{2}{5}$ lin. crassus, a foliorum vaginis pæne ad paniculæ basin arcte velatus. *Folia* basalia linearia, superne attenuata, plus minus convoluta, ad 5 poll. longa, vix rigidula; caulina ad $1\frac{2}{3}$ poll. longa, e basi ad apicem acutum attenuata, marginibus involutis, rigidula;

ligula obsoleta. *Panicula* $2\frac{1}{4}$ ad $3\frac{3}{4}$ poll. longa, ramis brevibus (ad $\frac{1}{2}$ poll. longis), tenuibus, flexuosis, e basi spiculiferis, interdum suberectis paniculam densam ad $\frac{1}{4}$ poll. crassam formantibus, interdum subpatentibus; rhachis et ramuli leves; spiculæ lanceolatæ, 1 lin. longæ, sub medio purpureo-tinctæ, breviter pedicellatæ. *Gluma* i. lanceolata, acuta, enervis, quam secunda et tertia paullo brevior ($\frac{7}{8}$ lin. long.); gl. ii. ovata, subacuta, uninervis, 1 lin. long.; gl. iii. ovata, subobtusa, uninervis, secundam æquans; palea paullo brevior; antheræ 3, atro-purpureæ, $\frac{1}{2}$ lin. long. *Semen* ellipticum, leve, rubrum, $\frac{1}{2}$ lin. longum.

Fokien: Hills, Amoy (*Sampson*, in herb. *Hance*, 13055 in part!); Kwangtung: Canton (*Hance*, 13055 in part!). Mus. Brit.; Herb. Kew.

Near *Sporobolus orientalis*, Kunth, but differing in habit, especially in the absence of stolons, in the sometimes effuse panicle, and the relatively longer acute lowermost barren glume.

3. **Sporobolus indicus**, *R. Br. Prodr.* p. 170; *Benth. Fl. Hongk.* p. 426; *Pilger, in Engl. Bot. Jahrb.* xxix. (1900) p. 224; *Hack. in Bull. Herb. Boiss.* sér. 2, iii. (1903) p. 502; *Hook. f. Fl. Brit. Ind.* vii. p. 247.

Sporobolus elongatus, *Franchet, Pl. David.* i. p. 333, non *R. Br.*; *A. Henry, in Trans. Asiat. Soc. Jap.* xxiv. *Suppl.* (1896) p. 108; *Franch. et Savat. Enum. Pl. Jap.* ii. p. 166.

Agrostis indica, *Linn. Sp. Pl.* p. 63; *Loureiro, Fl. Cochinch.* p. 49; *Osbeck, Resa*, p. 215.

Vilfa elongata, *Beauv. Agrost.* p. 181; *Nees, in Hook. & Arn. Bot. Beechey's Voy.* p. 248; *Hook. & Arn. l. c.* p. 274.

Vilfa indica, *Steud. Syn. Gram.* p. 162.

Kiangsu: above Changchau, Yangtzekiang (*Faber*, 1183!); Formosa: Apes' Hill, Takow (*A. Henry*, 1030!); Hupeh (*A. Henry*, 4287!), Ichang (*A. Henry*, 889!), Patung (*A. Henry*, 2510!); Kwangtung: Whampoa (*Robertson*!), Canton (*Sampson*, 306!); Hongkong: Mt. Victoria (*Lamont*! *Hance*, 1114! *Wright*!); Luchu Archipelago (*Wright*!); China: without locality (*Seemann*! *Reeves*!). Mus. Brit.; Herb. Kew.

Japan, India, and tropics of both hemispheres.

4. **Sporobolus japonicus**, *Maxim. MS.*

Sporobolus ciliatus, *Presl*, var. japonicus, *Hack. in Bull. Herb. Boiss.* vii. (1899) p. 648.

Agrostis japonica, *Steud. Syn. Gram.* p. 171; *Miq. in Ann. Mus. Bot. Lugd.-Bat.* ii. p. 277; *Franch. et Savat. Enum. Pl. Jap.* ii. p. 167.

KIANGSI: Kiukiang, Nankangfu (*Reid*!). Herb. Kew.

Japan.

5. **Sporobolus virginicus**, *Kunth, Rév. Gram.* i. p. 67; *A. Henry, in Trans. Asiat. Soc. Jap.* xxiv. *Suppl.* (1896) p. 108; *Hook. f. Fl. Brit. Ind.* vii. p. 249.

Agrostis virginica, *Linn. Sp. Pl.* p. 63.

FOKIEN: Amoy, on the sea-shore (*Sampson*, in herb. *Hance*, 12295!); FORMOSA: Takow (*A. Henry*, 1055, 1067, 1844!), Apes' Hill (*Playfair*, 150!). Mus. Brit.; Herb. Kew.

Ceylon, Java, Australia, Tropical and South Africa, and America.

1. **Agrostis alba**, *Linn. Sp. Pl.* p. 63; *Steud. Syn. Gram.* p. 167; *Pilger, in Engl. Bot. Jahrb.* xxix. (1900) p. 224; *Hack. in Bull. Herb. Boiss.* vii. (1899) p. 649; *Hook. f. Fl. Brit. Ind.* vii. p. 254; *Franchet, Pl. David.* ii. p. 142.

SZECHUEN: Moupin (*David*, fide *Franchet*).

Japan, Himalaya, Central Asia, Europe; introduced in America.

I have seen no specimen.

2. **Agrostis canina**, *Linn. Sp. Pl.* p. 62; *Steud. Syn. Gram.* p. 165; *Maxim. Primit. Fl. Amur.* p. 325; *Komarow, in Act. Hort. Petrop.* xx. (1901) p. 276; *Hack. in Bull. Herb. Boiss.* vii. (1899) p. 649, et sér. 2, iii. (1903) p. 502; *Hook. f. Fl. Brit. Ind.* vii. p. 255.

FORMOSA: Tamsui (*Oldham*, 609!); HUPEH: Ichang (*A. Henry*, 245, 3464!). Herb. Kew.

Japan, Himalaya, and North temperate regions generally.

In Dr. Henry's specimen no. 245 the pale is one-third the length of the fertile glume, and the callus bears very short lateral tufts of stiffish hairs, scarcely $\frac{1}{10}$ of a line long.

3. **Agrostis Hugoniana**, *Rendle*, n. sp.

Herba parva, cæspitosa, perennis, rhizomate tenui fragili, radicibus dense fibrosis; culmi 3–4½ poll. longi, subcompressi, basi ad 1½ lin. crassi, 2-nodi, internodium inferius breve, basi vaginis membranaceis marcidis obtectum, superius elongatum, vaginam

laxam glabram sæpius excedente. *Foliorum* ligula scariosa, truncata vel obtusa, $\frac{3}{4}$ ad 1 lin. longa; lamina culmi vix 2 poll. longa, 1 vel $1\frac{1}{2}$ lin. lata, linearis superne attenuata, glabra, innovationum longior, ad $4\frac{1}{2}$ poll. *Panicula* densa, lineari-oblanceolata vel lineari-oblonga, $1\frac{1}{2}$–$2\frac{1}{2}$ in. longa ad $\frac{1}{2}$ in. lata; rami erecti, terni (ad nodos superiores bini et solitarii), laterales e basi ramulosi, ut ramuli pedicellique leves; pedicellus quam spicula brevior; spiculæ $1\frac{3}{4}$ lin. longæ, lanceolatæ, pallide virides sæpe purpureo-tinctæ. *Glumæ* steriles subæquales, ovato-lanceolatæ, acutæ, 1-nerves, carina exterioris supra basin hirsutula; gl. fertilis paullo brevior, perlucida ($1\frac{1}{2}$ lin. longa), cum venis 5 inconspicuis; palea brevis, circiter $\frac{1}{4}$ lin. longa; anthera oblonga, $\frac{1}{2}$ lin. longa; processus rhachillæ absens; callus cum pilis brevissimis (vix $\frac{1}{4}$ lin.) instructus.

SHENSI: Mt. Miaowansan (*Hugh*!). Mus. Brit.

This species recalls the Northern Indian *Agrostis inæquiglumis*, Griseb., but is of more robust habit, with much larger spikelets, broader leaves, &c.

4. **Agrostis micrantha,** *Steud. Syn. Gram.* p. 170; *Hook. f. Fl. Brit. Ind.* vii. p. 256.

Agrostis alba, *Baker & Moore, in Journ. Linn. Soc., Bot.* xvii. (1879) p. 388, non *Linn.*

SHINGKING: Chienshan (*Ross*, 428, 581!); HUPEH: Patung (*A. Henry*, 4722, 4723!); YUNNAN: Mengtze forest, at 5500 ft. (*A. Henry*, 11257!). Mus. Brit.; Herb. Kew. 9

Himalaya.

5. **Agrostis myriantha,** *Hook. f. Fl. Brit. Ind.* vii. p. 257.

HUPEH (*A. Henry*, 4036, 4698!). Mus. Brit.; Herb. Kew.

Himalaya.

6. **Agrostis perennans,** *Tuck. in Amer. Journ. Sci.* ser. 2, xlv. (1843) p. 44; *A. Gray, Man. Bot.* ed. 5, p. 611; *Steud. Syn. Gram.* p. 165; *Palibin, in Act. Hort. Petrop.* xix. (1901) p. 132; *Pilger, in Engl. Bot. Jahrb.* xxix. (1900) p. 224; *Miq. in Ann. Mus. Bot. Lugd.-Bat.* ii. p. 277; *Franch. et Savat. Enum. Pl. Jap.* p. 166; *Hack. in Bull. Herb. Boiss.* vii. (1899) p. 648.

HUPEH: Patung (*A. Henry*, 4034, 4697!); COREA: Soul (*Sontag*!). Mus. Brit.; Herb. Kew.

Japan; Eastern United States.

7. **Agrostis scabra**, *Willd. Sp. Pl.* i. p. 370; *Steud. Syn. Gram.* p. 164; *Hack. in Bull. Herb. Boiss.* vii. (1899) p. 648, et sér. 2, iii. (1903) p. 502.

Agrostis laxiflora, *R. Br. in Richards, App. Frankl. Voy.* p. 3; *Franchet, Pl. David.* i. p. 332; *Regel, Tent. Fl. Ussur.* p. 170; *Turcz. Fl. Baic.-Dahur.* ii. p. 305; *Maxim. Prim. Fl. Amur.* p. 325.

CHIHLI: environs of Peking (*David*, fide *Franchet*); COREA: meadows near Kanouento (*Faurie*, fide *Hackel*).

Japan, North Asia; North America.

I have seen no specimen.

8. **Agrostis vulgaris**, *With.*, var. **ligularis**, *Franchet, Pl. David.* ii. p. 142.

SZECHUEN: Moupin (*David*, fide *Franchet*).

I have seen no specimen.

1. **Calamagrostis epigejos**, *Roth, Tent. Fl. Germ.* i. p. 34; *Steud. Syn. Gram.* p. 187; *Franchet, Pl. David.* i. p. 331, *et in Mém. Soc. Sci. Nat. Cherbourg*, xxiv. (1884) p. 268; *Pilger, in Engl. Bot. Jahrb.* xxix. (1900) p. 224; *Regel, Tent. Fl. Ussur.* p. 170; *Maxim. Primit. Fl. Amur.* p. 324; *Turcz. Fl. Baic.-Dahur.* ii. p. 310.

Var. densiflora, *Ledeb. Fl. Altaic.* i. p. 87; *Franchet, Pl. David.* i. p. 332; *Hack. in Bull. Herb. Boiss.* vii. (1899) p. 649, et sér. 2, iii. (1903) p. 502; *Palibin, in Act. Hort. Petrop.* xix. (1901) p. 132; *Komarow, ibid.* xx. (1901) p. 276.

Arundo epigejos, *Linn. Sp. Pl.* p. 81; *Loureir. Fl. Cochinch.* p. 45.

CHIHLI: Jehol (*David*, 1953!), mountains near Tachiaosze (*Moellendorff*!), Peking (*Bretschneider*, 847!); SHINGKING: Moukden to Yaloo River (*Webster*!); HUPEH (*A. Henry*, 7371!). Patung (*Wilson*, 1656! *A. Henry*, 4722!), Ichang (*A. Henry*, 3967!), Changyang (*A. Henry*, 6213!); SHENSI: Kusan, Kisanshien (*Hugh*!); KWANGTUNG: Lofaushan, 3100 feet (*Ford*, 17!); COREA (*Veitch*!); COREAN ARCHIPELAGO (*Oldham*, 943!). Mus. Brit.; Herb. Kew.

Japan and temperate Asia; Europe; South Africa.

2. **Calamagrostis Langsdorfii**, *Trin. De Gram. Unifl. &c.* p. 225, tab. iv. fig. 10; *Franchet, Pl. David.* i. p. 332.

Calamagrostis villosa, *Mutel*, var. Langsdorfii, *Hack. in Sommier, Fl. Ob. infer.* p. 107, *et Bull. Herb. Boiss.* vii. (1899) p. 650.

CHIHLI: environs of Pohuashan (*David*, fide *Franchet*).

Japan.

I have seen no specimen.

3. **Calamagrostis Onoei**, *Franch. et Savat. Enum. Pl. Jap.* ii. p. 198; *Franchet, Pl. David.* i. p. 332; *Hack. in Bull. Herb. Boiss.* vii. (1899) p. 650,

CHIHLI: borders of Lanho, Jehol (*David*, fide *Franchet*).

Japan.

I have seen no specimen.

4. **Calamagrostis villosa**, *Mutel, Fl. Fr.* p. 41; *Hack. in Bull. Herb. Boiss.* vii. (1899) p. 650, et sér. 2, iii. (1903) p. 502; *Komarow, in Act. Hort. Petrop.* xx. (1901) p. 277.

COREA: damp grassy places below Kanouento Mountains (*Faurie*, 850, fide *Hackel*).

Japan.

I have seen no specimen.

1. **Deyeuxia effusiflora**, *Rendle*, n. sp.

Folia . . . . *Panicula* diffusa, ad 14 poll. longa, rhachis scabridula, nodi inferiores distantes, rami 4 ad 5 poll. longi, tenues, flexuosi, subpatentes vel superiores ascendentes, ad nodum quemque sæpe quini lateraliter fasciculati, interdum e basi divisi, sæpius ad $\frac{1}{4}$–$\frac{1}{2}$ longitudinis nudi, ut ramuli longi capillares et pedicelli scabriduli; pedicelli quam spiculæ breviores; spiculæ purpureo-tinctæ, lanceolatæ, $1\frac{3}{4}$ lin. long. *Glumæ* steriles rigidulæ, scaberulæ; gl. i. lanceolata, obtusa, uninervis, nervo in $\frac{2}{3}$ superiore hirsutulo; gl. ii. paullo brevior, elliptica, obtusa, 3-nervis; gl. fertilis quam steriles paullo brevior, ovata, inconspicue 4-nervis, apice perlucida 4-denticulata; arista basalis, geniculata, $2\frac{1}{2}$ lin. longa; pili in callo laterales vix $\frac{1}{2}$ lin. longi; palea quam gluma paullulo brevior; processus rhachillæ barbatus cum pilis vix 1 lin. longus.

SZECHUEN (*Rockhill*!). Herb. Kew.

Approaches *D. hupehensis*, mihi, in the characters of the spikelets, which, however, are less rigid and not scaberulous in that species, but differs strikingly in the large, laxly-branching, spreading panicle.

2. **Deyeuxia elatior**, *Hook. f. Fl. Brit. Ind.* vii. p. 266.

Calamagrostis scabrescens, var. elatior, *Griseb. in Goett. Nachr.* 1868, p. 79.

CHIHLI: between Peking and Jehol (*Staunton* !). Mus. Brit. Khasia Hills.

Differs from the Indian specimens in the much shorter hairs on the callus.

3. **Deyeuxia Henryi**, *Rendle*, n. sp.

Culmus elatus 5-pedalis, basi vix 2 lin. crass., 3-nodus. *Foliorum* vaginæ elongatæ, 9–15 poll. longæ (vagina suprema inferiores excedens), quam internodia breviores, sublaxæ, marginibus et in striis longitudinalibus breviter pilosæ; ligula ovata, obtusa, 4–4½ lin. longa; lamina linearis, basi in nervo mediano valido plicata, superne longe attenuata, bipedalis, 3 lin. lata, utrinque scabridula. *Panicula* vix pedalis, oblanceolata, densiuscula at superne laxior, culmus sub panicula, rhachis, et rami scabriduli; rami sæpius quini, ad nodos inferiores ascendentes, supra paniculæ medium subpatentes, infra medium ramulosi, ramuli et pedicelli breves scabriduli; spiculæ 2 lin. longæ, purpureo-tinctæ. *Gluma* i. secundam paullulo excedens, ovato-lanceolata, acuta, uninervis, in nervo scabridula; gl. ii. late ovata obtusiuscula, 3-nervis, glabra; gl. fertilis steriles subæquans, late ovata, 4-nervis, apice truncata denticulata, arista basalis, geniculata, 3 lin. longa, pili laterales in callo minus quam 1 lin. longi; palea quam gluma paullo brevior; antheræ purpureæ, 1 lin. longæ; processus rhachillæ barbatus, cum pilis 1¼ lin. longus.

HUPEH: Fang (*A. Henry*, 6724 !). Mus. Brit.; Herb. Kew.

This species has the general habit of *Deyeuxia sylvatica*, but is distinguished by its blunt spikelets, subequal glumes, and form of panicle.

4. **Deyeuxia Hugoniana**, *Rendle*, n. sp.

Herba perennis, cæspitosa; culmi aggregati, ad 10 pollicares longi, cum internodiis basalibus brevibus tenuibus cylindricis, ad nodum supremum autem geniculati, tum erecti internodio elongato ad 8 poll. longo compresso, viride, glabro sed sub panicula scabridulo. *Folia* erecta, vaginæ glabræ, internodia inferiora tegentes, suprema circa 2 poll. longa, ad internodii basin arcte applicita; ligula brevis, obtusa, rotundata, glabra, ½ lin. longa; lamina linearis, superne attenuata, acutiuscula, plana vel con-

duplicata, glabra, folii supremi 3½ ad 4 poll. longa, ad 1 lin. lata. ***Panicula*** laxa, sublanceolata vel ovata, 3 ad 4 poll. longa, ½ ad 1¼ poll. lata; rami ad quemque nodum bini, demum sæpius patentes, flexuosi, in parte ½ ad ⅓ inferiore nudi, ramus longior ad 1½ poll. longus, sparse ramulosus, rami, velut rhachi, ramulis et pedicellis scabridi; spiculæ vix 2 lin. longæ, purpureo-tinctæ. *Glumæ steriles* lanceolatæ, acutæ; gl. i. 1¼ ad 1½ lin. longa, infra medium 3-nervis, carina supra medium scabridula; gl. ii. quam prima paullo longior, 3-nervis, nervi laterales medium superantes, carina in parte ⅔ superiore scabridula; gl. fertilis ovata (quum aperta) obtusiuscula, gl. secundam subæquans, imperfecte 5-nervis, carina in parte ⅔ superiore scabridula in parte inferiore pilosa: callus breviter pilosus, palea quam gluma paullo brevior; antheræ ⅔ lin. longæ; rhachillæ processus glaber vel glaberulus, vix 1 lin. longus, interdum glumæ rudimentum minutum gerens.

SHENSI: Mt. Miaowansan (*Hugh*!). Mus. Brit.

A very distinct species characterized by the absence of an awn on the fertile glume, and the glabrous continuation of the rhachilla.

5. **Deyeuxia hupehensis**, *Rendle*, n. sp.

Herba cæspitosa; culmi aggregati, tenues, glabri, 2-nodi, geniculati, pedales, basi ½–⅔ lin. crassi. *Folia* rigidula, suberecta; vaginæ striatæ, haud scabridæ, margine superiore et ore breviter pilosæ, internodia haud æquantes; ligula brevis, ½–1 lin. longa; lamina linearis, basi attenuata, superne tenuiter acuminata, induplicata, in facie superiore pilosula, dorso scabridula, ad 10 poll. longa, et 2 lin. lata. *Panicula* vix semipedalis, lanceolata, vix densa, 1 poll. lata; rhachis tenuis, levis; rami numerosi, fasciculati, in ⅓ inferiore ramulosi, erecto-patentes, ramuli capillares, ut pedicelli minute scabriduli; pedicellus spiculam subæquans vel paullo brevior; spiculæ pallide virides, purpureo-tinctæ, vix 2 lin. longæ. *Glumæ* membranaceæ; gl. i. lanceolata, acuta, 1-nervis, margine ciliolata, nervo scabridula; gl. ii. paullo brevior, elliptica, obtusa vel breviter et abrupte subacuta, nervis tribus parallelis viridibus lineata; gl. fertilis secundam subæquans, 4-nervis, apice denticulata, arista basalis, geniculata, vix 3 lin. longa, pili laterales in callo ¼ lin. longi, palea quam gluma paullulo vel vix brevior; antheræ purpureæ, 1 lin. longæ; rhachillæ processus barbatus, cum pilis ¾ lin. longus.

HUPEH (*A. Henry*, 6726!). Mus. Brit.; Herb. Kew.

This species seems nearest to *Calamagrostis hakonensis*,

Franchet & Savat., but differs in habit, having much fewer stem-nodes, also in the longer ligule, the long-exserted awn of the fertile glume, and the very short hairs on its callus.

6. **Deyeuxia moupinensis**, *Pilger, in Engl. Jahrb.* xxix. (1900) p. 225.

Calamagrostis moupinensis, *Franchet, Pl. David.* ii. p. 144.

SZECHUEN: Moupin (*David*, fide *Franchet*).

I have seen no specimen.

7. **Deyeuxia pulchella**, *Hook. f. Fl. Brit. Ind.* vii. p. 268.

Calamagrostis pulchella, *Griseb. in Goett. Nachr.* 1868, p. 78.

SZECHUEN: Tachienlu (*Pratt*, 553!). Mus. Brit.; Herb. Kew.

Himalaya, Tibet.

8. **Deyeuxia sachalinensis**, *Rendle.*

Calamagrostis sachalinensis, *Fr. Schmidt, Reisen in Amurl.* p. 203; *Hack. in Bull. Herb. Boiss.* vii. (1899) p. 650, et sér. 2, iii. (1903) p. 502.

COREA: near Naipiang (*Faurie*, 874, fide *Hackel*).

North Asia.

I have not seen the specimen.

9. **Deyeuxia scabrescens**, *Munro, ex Duthie, Grasses N.W. India*, p. 31; *Pilger, in Engl. Bot. Jahrb.* xxix. (1900) p. 225; *Hook. f. Fl. Brit. Ind.* vii. p. 267.

Calamagrostis scabrescens, *Griseb. in Goett. Nachr.* 1868, p. 79; *Franchet, Pl. David.* ii. p. 143.

SZECHUEN: Tongolo (*Soulié*, 263!), summit of Mt. Omei (*Faber*, 1168!). Herb. Kew.

Himalayas.

10. **Deyeuxia sylvatica**, *Kunth, Rév. Gram.* i. p. 77, *et Enum.* i. p. 243; *Hook. f. Fl. Brit. Ind.* vii. p. 266.

Calamagrostis arundinacea, *Roth, Tent. Fl. Germ.* i. p. 33; *Hance, in Journ. Bot.* xvi. (1878) p. 234; *Hack. in Bull. Herb. Boiss.* vii. (1899) p. 652, et sér. 2, iii. (1903) p. 502; *Regel, Tent. Fl. Ussur.* p. 169; *Maxim. Fl. As. Or. Fragm.* p. 70.

Calamagrostis sylvatica, *DC. Fl. Franç.* v. p. 253; *Ledeb. Fl. Ross.* iv. p. 426; *Turcz. Fl. Baic.-Dah.* ii. p. 314; *Maxim. Prim. Fl. Amur.* p. 323.

CHIHLI: Mt. Miaofengshan (*Moellendorff*, in herb. *Hance*, 17528 in part!); HUPEH: Fang (*A. Henry*, 6727!), Patung (*A. Henry*, 2564, 5052, 7411!); SHENSI: Mt. Laoysan (*Hugh*!), Mt. Miaowansan (*Hugh*!), Mt. Kiansan, Husienscen (*Hugh*!);

SZECHUEN: North Wushan, 4000–7000 feet (*A. Henry*, 7043!); KWANGTUNG: near River Lienchan (*Nevin*, in herb. *Hance*, 17528 in part!). Mus. Brit.; Herb. Kew.

Himalayas, Japan, Temperate Asia, Europe.

Var. **borealis**, *Rendle*, var. nov. *Culmi* ad 2-pedales, basi 1 lin. crass., 3-nodi. *Foliorum* vaginæ glabræ, striatæ, vix scabridulæ, sublaxæ; ligula ovata, 2–5 lin. longa; lamina ut in var. *ligulata* sed minus scabridula. *Panicula* densiuscula, ramis brevibus ascendentibus, lanceolata, 8–9 poll. longa, ad 7 lin. lata; spiculæ 3 lin. longæ. *Gluma* i. secundam paullo ($\frac{1}{4}$–$\frac{1}{2}$ lin.) excedens; gl. fertilis c. 2$\frac{1}{2}$ lin. longa, arista basalis c. 4 lin. longa, pili laterales in callo $\frac{1}{2}$ lin. longi; palea 2 lin. longa; rhachilla cum pilis c. 1$\frac{1}{2}$ lin. longa.

SHANTUNG: Chefoo (*Forbes*, 397! *Maingay*, 63!). Herb. Kew.

Near var. *ligulata*, but distinguished by its less strict and laxer panicle and larger spikelets.

Var. **brachytricha**, *Hack. in Bull. Herb. Boiss.* vii. (1899) p. 652.

Calamagrostis brachytricha, *Steud. Syn. Gram.* p. 189; *Hance, in Journ. Linn. Soc., Bot.* xiii. (1873) p. 91; *Miq. in Ann. Mus. Bot. Lugd.-Bat.* ii. p. 278; *Franch. et Savat. Enum. Pl. Jap.* ii. p. 169.

CHIHLI: Peking (*Williams*, in herb. *Hance*, 12793 in part!); SHINGKING (*Ross*, 130!), Newchang (*Shearer*!); HUPEH, 7000–9500 ft. (*A. Henry*, 6792!), Ichang (*A. Henry*, 2745!), Tsien Mountains (*Faber*, 1528!). Mus. Brit.; Herb. Kew.

Japan.

I find it difficult to distinguish this variety from the type-species.

Var. **collina**, *Rendle*.

Deyeuxia collina, *Pilger, in Engl. Bot. Jahrb.* xxix. (1900) p. 225.

Calamagrostis collina, *Franchet, Pl. David.* ii. p. 143.

SZECHUEN: Moupin, on sunny hills (*David*, fide *Franchet*).

I have not seen a specimen of this plant, but do not find in the description anything by which to separate it specifically from *Deyeuxia sylvatica*. The author says that it has the habit of *Calamagrostis sciuroides*, from which it differs in having the culms smooth below the panicle, the tuft of hairs on the callus shorter, equalling scarcely a third of the length of the flower, and the sheaths glabrous at the top. The ligule is short, the fertile glume and palea are equal in length and hardly shorter than the barren glumes; the spikelets are barely 2 lines long.

Var. **hirsuta**, *Hack. in Bull. Herb. Boiss*, sér. 2, iii. (1903) p. 502.

Corea: near Fusan (*Faurie*, 851, fide *Hackel*).

I have not seen the specimen.

Var. **latifolia**, *Rendle*, var. nov. *Planta* robusta; culmus 3-pedalis, basi vix 2 lin. crass., 3-nodus. *Foliorum* vaginæ pilosæ; ligula brevis obtusa, ad 1½ lin. longa; lamina elongata, lineari-lanceolata, 2-pedalis et ultra, ½ poll. lata, in parte inferiore plicata, angustata, superne in apicem aristiformem attenuata; in facie superiore scabridula, cum nervo mediano præcipue in parte inferiore eminente. *Panicula* pedalis, stricta, densa, ad ¾ poll. lata; spiculæ 2½–2¾ lin. longæ. *Glumæ* steriles æquales, gl. i. uninervis, ii. trinervis, venis conspicuis, hirsutulis; gl. fertilis 2¼–2½ lin. longa, cum arista basali 3½ lin. longa, palea paullo brevior, pili laterales in callo ½ lin. longi, rhachillæ continuatio cum pilis insidentibus 1¼ lin. longa.

Chihli: Peking (*Bretschneider*, 851–2! *Moellendorff*, in herb. *Hance*, 12793 in part!). Mus. Brit.; Herb. Kew.

Characterized by its robust habit, very long broad leaves with hairy sheaths and short ligules, and long slender dense panicles. Evidently very near *Calamagrostis robusta*, Franchet et Savat., which from the description resembles it in habit, size of spikelets, &c., but is described as having a ligule nearly 1 cm. long, and a very minute oblong glabrous (?) rudiment of a second flower.

Var. **laxiflora**, *Rendle*, var. nov. *Folia* innovationum e vaginis marcidis rufescentibus dense involutis orientia, anguste linearia, superne longe attenuata, plana, sesquipedalia, 1 lin. lata, rigidula, marginibus scabridulis; folia culmi linearia, scabridula; ligula brevis, 1 lin. long. *Panicula* 7–9 poll. long., pyramidata, rami ad noda inferiora quini patentes, in parte inferiore nudi, superne laxiflori; spiculæ 2¼ lin. long. *Gluma* i. secundam paullo excedens; gl. fertilis 2 lin. longa, paleam paullo (¼ lin.) excedens, arista basalis 2 lin. longa, rhachilla cum pilis ¾ lin. longa; pili laterales in callo ½ lin. longi.

Hupeh: Ichang (*A. Henry*, 978!). Herb. Kew.

Characterized by the long narrow linear leaves of the sterile shoots, which are surrounded at the base by a dense covering of reddish sheath-remains, and the habit of the inflorescence with its pyramidal outline and laxly-spreading lower branches.

Var. **ligulata**, *Rendle*, var. nov. *Culmus* 2½-pedalis, parte inferiore 1½ lin. crass., 3-nodus. *Foliorum* vaginæ glabræ, scabridulo-striatæ; ligula ovata, ad 3½ lin. longa; lamina linearis, sub medio angustata et plicata, superne longe attenuata, ad sesquipedalis longa, 2½ lin. lata, utrinque scabrida. *Panicula* stricta, densa, 9 poll. longa; spiculæ 2–2½ lin. longæ. *Gluma* i. secundam paullo excedens; gl. fertilis sterilibus c. ½ lin. brevior (sæpe 2 lin. longa); arista basalis 2½ lin. longa; pili laterales in callo c. 1 lin. longi; palea glumam subæquans; rhachilla cum pilis paleam subæquans vel paullo brevior.

HUPEH (*A. Henry*, 5021!). Mus. Brit.; Herb. Kew.

Characterized by its long ligule, its dense strict panicle, and by having the rhachilla-continuation with its hair-tuft about equal to the pale, and the lateral tufts of hairs on the callus barely half the length of the glume.

Var. **sciuroides**, *Hack. in Bull. Herb. Boiss.* vii. (1899) p. 652.

Calamagrostis sciuroides, *Franch. et Savat. Enum. Pl. Jap.* ii. p. 600.

CHIHLI: hills in neighbourhood of Jehol (*David*, 2182!), dry hills and edges of fields in Peking district (*Williams*, in herb. *Hance*, 12793 in part!). Mus. Brit.; Herb. Kew.

Japan.

Distinguished from the species by its longer, more rigid and scabrid spikelets, conspicuous nerves on the upper barren glume, and longer hairs on callus of fertile glume.

Tribe AVENEÆ.

1. **Eriachne pallescens**, *R. Br. Prodr.* p. 184; *Steud. Syn. Gram.* p. 237; *Benth. Fl. Austr.* vii. p. 630.

Eriachne Hookeri, *Munro* (nomen), *in Journ. Linn. Soc., Bot.* vi. (1862) p. 42; *Hance, in Ann. Sci. Nat.* sér. 5, v. (1866) p. 251.

Eriachne chinensis, *Hance, in Ann. Sci. Nat.* sér. 4, xv. (1861) p. 228, *and in Journ. Linn. Soc., Bot.* xiii. (1873) p. 136.

Aira seminibus hirsutis, aristis terminalibus, flore longioribus, *Osbeck, Resa*, p. 220.

KWANGTUNG: French Island (*Osbeck*, in herb. *Linn.*!), hills north of Canton (*Hance*!), hills, Danes Island, Whampoa (*Hance*, 7424 in part! *Ford*, 207!); HONGKONG: tops of mountains (*Hance*, 7424 in part!). Mus. Brit.; Herb. Kew.

India, Malaya, Australia.

1. **Cœlachne pulchella,** *R. Br. Prodr.* p. 187; var. **simpliciuscula,** *Hook. f. Fl. Brit. Ind.* vii. p. 271.

Cœlachne pulchella, *Benth. Fl. Hongk.* p. 430.

Panicum simpliciusculum, *Wight & Arn. ex Steud. Syn. Gram.* p. 96.

SZECHUEN: Tcentosen, Mt. Uomisan (*Hugh*!); KWANGTUNG: swampy ground near Canton (*Sampson*, 1144!), pools at the foot of Mt. Pakwan, outside Canton (*Sampson*, in herb. *Hance*, 8142!), rice-field Kowlung, mainland opposite Hongkong (*Lamont*!); HONGKONG: ditch, Little Hongkong (*Lamont*! *Wilford*, 253! *Faber*, 279!). Mus. Brit.; Herb. Kew.

India, Ceylon, Malaya, Madagascar.

1. **Deschampsia cæspitosa,** *Beauv. Agrost.* p. 91, t. xviii. fig. 3; *Hack. in Bull. Herb. Boiss.* vii. (1899) p. 702; *Maxim. Prim. Fl. Amur.* p. 323; *Turcz. Fl. Baic.-Dahur.* ii. p. 318; *Hook. f. Fl. Brit. Ind.* vii. p. 273.

Aira cæspitosa, *Linn. Sp. Pl.* p. 64; *Steud. Syn. Gram.* p. 219; *Komarow, in Act. Hort. Petrop.* xx. (1901) p. 283.

SZECHUEN: Tongolo (*Soulié*, 703, 732!). Herb. Kew.

Japan, Himalayas, and temperate and cold regions of Northern and Southern hemispheres; alpine in Tropics.

1. **Trisetum flavescens,** *Beauv. Agrost.* p. 88; *Steud. Syn. Gram.* p. 226; *Miq. in Ann. Mus. Bot. Lugd.-Bat.* ii. p. 279; *Hack. in Bull. Herb. Boiss.* vii. (1899) p. 702; *Turcz. Fl. Baic.-Dahur.* ii. p. 319; *Maxim. Prim. Fl. Amur.* p. 323; *Komarow, in Act. Hort. Petrop.* xx. (1901) p. 283.

Avena flavescens, *Linn. Sp. Pl.* p. 80; *Pilger, in Engl. Bot. Jahrb.* xxix. (1900) p. 225; *Hook. f. Fl. Brit. Ind.* vii. p. 279.

SHENSI: Miaowansan (*Hugh*!); HUPEH: Patung (*A. Henry*, 4696, 4027, 2558!); COREAN ARCHIPELAGO: Tsusima Islands, Strait of Corea (*Wilford*, 804!), Port Chusan (*Wilford*, 938!). Mus. Brit.; Herb. Kew.

Japan; Europe, Temperate Asia, North Africa.

Var. **macranthum**, *Hack. in Bull. Herb. Boiss.* vii. (1899) p. 703, et sér. 2, iii. (1903) p. 503.

COREA: Soul (*Faurie*, 807), hills near Chinampo (*Faurie*, 883), Mt. Kanouento (*Faurie*, 896), all *fide* Hackel.

Japan.

I have seen no specimen.

2. **Trisetum Henryi**, *Rendle*, n. sp.

Planta robusta, elata, culmus 4–5-pedalis, basi plus quam 2 lin. crassus, 8-nodus, internodia glabra polita. *Foliorum* vaginæ, superioribus exceptis, internodia æquantes vel superantes, striatæ, plus minus scabridæ, marginibus et ore, interdum quoque superficie, piliferæ; ligula brevissima breviter pilosa; lamina anguste lineari-lanceolata, apice attenuata ad 1 ped. longa, et ½ poll. lata, scabridula, cum nervo mediano dorso prominulo in facie superiore interdum sparse pilifera. *Panicula* ovalis, densa, 8 poll. longa, ad 3½ poll. diametro; rami ad nodum quemque terni vel plurimi, multi-ramulosi, ad paniculæ basin ascendentes, superne curvulo-patentes, rami ramulique super basin nudam spiculiferi velut rhachide leves; spiculæ pedicellos sæpius duplo excedentes, bifloræ, iis *T. flavescentis* similes sed argenteo-fulvæ, vix 3 lin. longa. *Gluma* i. lanceolata, acuta, 1-nervis, 1½ lin. longa; gl. ii. ovali-lanceolata, acuta, 3-nervis, 2½ lin. longa, carina ut in gl. i. supra medium minute scabridula; gl. iii. (plicata) anguste lanceolata, apice acuminata bifida, 3-nervis, dorso scabridula, 2½ lin. longa, arista tenuis, geniculata, circa tertiam partem ab apice inserta, 3 lin. long.; palea 2 lin. long., carinæ minute scabridulæ; antheræ 1½ lin. long.; rhachilla inter flores et super florem alterum, breviter pilosa.

HUPEH: Fang (*A. Henry*, 6643, 6706!). Mus. Brit.; Herb. Kew.

Closely allied to *Trisetum flavescens*, but a taller, more robust plant, with denser panicle and silvery-brown coloured spikelets. Except in the somewhat less acute lower barren glume, I find no difference in the details of the spikelet from those of *T. flavescens*.

3. **Trisetum subspicatum**, *Beauv. Agrost.* p. 88; *Steud. Syn. Gram.* p. 225; *Hack. in Bull. Herb. Boiss.* vii. (1899) p. 703.

Avena subspicata, *Clairv. Man. Herb.* p. 17; *Hook. f. Fl. Brit. Ind.* vii. p. 278.

SHENSI: Mt. Miaowansan (*Hugh*!). Mus. Brit.

Japan, Himalayas, and generally distributed in alpine and frigid regions.

1. **Avena Delavayi**, *Hack. in Oest. bot. Zeitschr.* lii. (1902) p. 189.

YUNNAN: "Mountain pastures of Heechanmen (Lankong) at 10,000 feet" (*Delavay*, fide *Hackel*).

I have seen no specimen.

2. **Avena fatua**, *Linn. Sp. Pl.* p. 80; *Steud. Syn. Gram.* p. 230; *Benth. Fl. Hongk.* p. 430; *Hook. & Arn. Bot. Beechey's Voy.* p. 274; *Thunb. Fl. Jap.* p. 54; *Miq. in Ann. Mus. Bot. Lugd.-Bat.* ii. p. 279; *Franch. & Sav. Enum. Pl. Jap.* ii. p. 173; *Hack. in Bull. Herb. Boiss.* vii. (1899) p. 703; *Hook. f. Fl. Brit. Ind.* vii. p. 275.

KIANGSU: Shanghai (*Faber*, 276!); FOKIEN: Foochow, spontaneous (*Gregory*, in herb. *Hance*, 1266 in part!); SZECHUEN: Tongolo (*Soulié*, 249!); HONGKONG (*Hance*, 1266 in part!). Mus. Brit.; Herb. Kew.

Europe, Temperate Asia, North Africa.

Var. **glabrata**, *Stapf, MS. in herb. Kew*; glumæ fertiles glabræ; earum callis breviter et dense hirsutis; rhachis hirsuta.

HUPEH: Ichang, wild at side of wheat-fields &c. (*A. Henry*, 3474!); COREA: Chemulpo (*Carles*, 164!). Mus. Brit.; Herb. Kew.

No. 3474 of Henry is referred by Pilger (in Engl. Bot. Jahrb. xxix. p. 225) to *Avena strigosa*, Schreb.

3. **Avena nuda**, *Linn. Amœn. Acad.* iii. p. 401; *Steud. Syn. Gram.* p. 230; *Host, Gram. Austr.* iii. t. 43.

Avena nuda, *Linn.*, var. chinensis, *Cat. Gor.*, ex *Trin. in Bunge, Enum. Pl. Chin. Bor.* p. 71, probably belongs here.

HUPEH (*A. Henry*, 6098!), cultivated oats, Yenmeh of the Chinese, Ichang (*A. Henry*, 3573!). Mus. Brit.; Herb. Kew.

Cultivated.

4. **Avena pratensis**, *Linn. Sp. Pl.* p. 80; *Steud. Syn. Gram.* p. 231; *Franchet, Pl. David.* i. p. 333; *Maxim. Prim. Fl. Amur.* p. 323; *Hook. f. Fl. Brit. Ind.* vii. p. 276.

CHIHLI: Environs of Pohuashan (*David*, fide *Franchet*).

Himalayas and Temperate Asia, Europe.

I have not seen the specimen.

5. **Avena sativa**, *Linn. Sp. Pl.* p. 79; *Steud. Syn. Gram.* p. 230; *Franchet, Pl. David.* i. p. 333; *Komarow, in Act. Hort. Petrop.* xx. (1901) p. 287; *Thunb. Fl. Jap.* p. 54; *Miq. in Ann. Mus. Bot. Lugd.-Bat.* ii. p. 279; *Franch. & Savat. Enum. Pl. Jap.* ii. p. 173; *Hack. in Bull. Herb. Boiss.* vii. (1899) p. 703; *Regel, Tent. Fl. Ussur.* p. 169; *Maxim. Prim. Fl. Amur.* p. 323; *Hook. f. Fl. Brit. Ind.* vii. p. 275.

COREAN ARCHIPELAGO (*Oldham*, 941!). Herb. Kew.

Cultivated.

Tribe CHLORIDEÆ.

1. **Microchloa setacea**, *R. Br. Prodr.* p. 208; *Steud. Syn. Gram.* p. 202; *Benth. Fl. Hongk.* p. 428; *Hook. f. Fl. Brit. Ind.* vii. p. 283.

Nardus indica, *Linn. f. Suppl.* p. 105; *Lour. Fl. Cochinch.* p. 44.

Rottbœllia setacea, *Roxb. Corom. Pl.* ii. p. 17, t. 132.

YUNNAN: rocky mountains 6500 ft., Mengtze (*A. Henry*, 10998!); KWANGTUNG: turfy places at the edges of bare rocks, Fungkwongshan near Whampoa (*Hance*, 13057 in part!), forms turf on damp lichen-covered rocks, Kulangsu Island, opposite Amoy (*Sampson*, in herb. *Hance*, 13057 in part!). Mus. Brit.; Herb. Kew.

India; tropics of Old and New Worlds.

1. **Cynodon Dactylon**, *Pers. Syn.* i. p. 85; *Benth. Fl. Hongk.* p. 428; *Pilger, in Engl. Bot. Jahrb.* xxix. (1900) p. 225; *Franchet, Pl. David.* i. p. 334, *et in Mém. Soc. Sci. Nat. Cherbourg*, xxiv. (1884) p. 269; *Debeaux, Fl. Tchefou*, p. 159; *A. Henry, in Trans. Asiat. Soc. Jap.* xxiv. *Suppl.* (1896) p. 109; *Miq. in Ann. Mus. Bot. Lugd.-Bat.* ii. p. 279; *Franch. et Savat. Enum. Pl. Jap.* ii. p. 172; *Hack. in Bull. Herb. Boiss.* vii. (1899) p. 703; *Hook. f. Fl. Brit. Ind.* vii. p. 288.

KIANGSU: Shanghai (*Maingay*, 556!); FORMOSA (*Campbell*!), Tamsui (*Oldham*, 613!), Takow (*A. Henry*, 1038!), Apes' Hill (*Playfair*, 32!); HUPEH (*A. Henry*, 478!), Ichang (*A. Henry*, 1365!); SHENSI: Kaolinsien (*Hugh*!), Kisansien (*Hugh*!);

KWANGTUNG: Macao (*Abel!*); HONGKONG: spontaneous (*Hance*, 1069!), Aberdeen (*Lamont!*). Mus. Brit.; Herb. Kew.

India, Japan, and widely distributed in the warmer parts of the earth.

1. **Enteropogon gracilior**, *Rendle*, n. sp.

Herba perennis, culmi tenues e basi sæpe repente ascendentes demum erecti, ramosi, floriferi ad sesquipedales, plurinodes, internodia $\frac{1}{3}$ ad $\frac{1}{2}$ lin. lata, glabra, inferiora a foliorum vaginis sæpius obtecta, superiora sæpius vaginas paullo excedentia, supremum valde exsertum. *Foliorum* vaginæ cylindricæ, internodiis arcte circumvolutæ, glabræ, ore albido-pilosæ, robustiores dorso carinulatæ; ligula brevissima, pilis mollibus albidis 1 lineis longis instructa; lamina glauca, rigidula, anguste linearis, superne attenuata, plana vel sæpe plus minus convoluta, 2–8 poll. longa, ad. $1\frac{1}{3}$ lin. lata, glabra, dorso scabridula. *Spica* linearis, densa, ad 5 poll. longa, 1 lin. lata; spiculæ sessiles, in seriebus duabus ordinatæ, $2\frac{1}{4}$ lin. longæ, unifloræ cum flosculo altero abortivo. *Glumæ* steriles hyalinæ, lanceolatæ, uninerves (nervi virides), persistentes, inferior obtusa, $\frac{2}{3}$ lin. longa, superior acuta pæne aristulata, vix 2 lin. longa, nervo valido; gl. fertilis, 2 lin. longa, cum marginibus ad nervos laterales inflexis elliptica, 3-nervis, nervi validi, dorso in parte superiore scabriduli, medianus ex apice bilobulato in aristam debilem gluma duplo longiorem prolongatus; callus breviter pilosus; palea quam gluma paullo brevior, carinulis superne scabridulis; flosculus abortivus, $1\frac{1}{3}$ lin. longus, cum aristula debile, $\frac{1}{2}$ lin. longa, glumam fertilem paullo superante.

FORMOSA: Takow (*A. Henry*, 1119!), Apes' Hill (*A. Henry*, 1940!). Mus. Brit.; Herb. Kew.

A well-marked species, resembling *Enteropogon melicoides* in habit but less robust, and differing in the slenderer shorter spike, and smaller, not clustered spikelets.

1. **Chloris barbata**, *Sw. Fl. Ind. Occ.* i. p. 200; *Steud. Syn. Gram.* p. 204; *Nees, in Hook. & Arn. Bot. Beechey's Voy.* p. 250; *Benth. Fl. Hongk.* p. 429; *A. Henry, in Trans. Asiat. Soc. Jap.* xxiv. *Suppl.* (1896) p. 109; *Hook. f. Fl. Brit. Ind.* vii. p. 292.

FORMOSA: Takow, on cliff and near sea-level (*A. Henry*, 726,

1023 !), Apes' Hill (*Playfair*, 53 !), Pescadores (*Swinhoe* !); Kwangtung: British Kowloon (*Ford*, 599 !), Macao (*Seemann* !); Hongkong (*Hance*, 1943 !), sea-beach at Saywan (*Wilford*, 246 !). Mus. Brit.; Herb. Kew.

India and tropics generally.

2. **Chloris incompleta,** *Roth, Nov. Sp.* p. 60; *Steud. Syn. Gram.* p. 207; *Hook. f. Fl. Brit. Ind.* vii. p. 290.

Chloris digitata, *Steud. l. c.*

Gymnopogon digitatus, *Nees, ex Steud. Nom.* ed. 2, i. p. 713; *A. Henry, in Trans. Asiat. Soc. Jap.* xxiv. *Suppl.* (1896) p. 109.

Formosa: Takow (*Campbell* ! *A. Henry*, 1151 !), Apes' Hill (*Playfair*, 308 !). Mus. Brit.; Herb. Kew.

India, Malaya.

3. **Chloris virgata,** *Sw. Fl. Ind. Occ.* i. p. 203; *Steud. Syn. Gram.* p. 205; *Hack. in Bull. Herb. Boiss.* sér. 2, iii. (1903) p. 503; *Hook. f. Fl. Brit. Ind.* vii. p. 291.

Chloris caudata, *Trin. in Bunge, Enum. Pl. Chin.* p. 70; *Debeaux, Fl. Tchefou*, p. 158; *Franchet, Pl. David.* i. p. 334, *et in Mém. Soc. Sci. Nat. Cherbourg*, xxiv. (1884) p. 268; *Komarow, in Act. Hort. Petrop.* xx. (1901) p. 288; *Palibin, ibid.* xxi. (1903) p. 209.

Chihli: Tientsin (*Fortune* !), mountains west of Peking (*Bretschneider* !), near Peking (*Williams*, in herb. *Hance*, 11462 in part !) (*Bushell* ! *Staunton* ! *Pierson*, in herb. *Hance*, 11462 in part !); Shantung: Chefoo (*Forbes*, 400 ! *Maingay*, 82 !); Kiangsu: Hai (*Faber*, 1534 !); Shensi: Kaolinsien (*Hugh* !); North Central China: Leunteon, Fenghosan (*Hugh* !); Hongkong (*herb. Munro*, 752 !). Mus. Brit.; Herb. Kew.

India and warmer parts of both hemispheres.

1. **Tripogon chinensis,** *Hack. in Bull. Herb. Boiss.* sér. 2, iii. (1903) p. 503.

Catapodium unilaterale, *Hance, in Ann. Sci. Nat.* sér. 5, v. (1866) p. 251, non *Griseb.*

Nardurus filiformis, var. chinensis, *Franchet, Pl. David.* i. p. 339.

Chihli (*Staunton* !), Peking (*Bretschneider*, 840 ! *Bushell* ! *Williams*, in herb. *Hance*, 11444 !), Sanyu, on the hills (*David*, 2065 !); Formosa: Apes' Hill, Takow (*A. Henry*, 1064 !). Mus. Brit.; Herb. Kew.

The plant cited by Franchet in his 'Catalogue des Plantes de

Tché-fou' (in Mém. Soc. Sci. Nat. Cherbourg, xxiv. p. 271) as *Festuca filiformis*, Nees, ex Steud. Syn. Gram. p. 302, probably belongs here.

Var. **coreensis**, *Hack. l. c.*

COREA: dry hills near Chinampo (*Faurie*, 803, fide *Hackel*).

I have not seen authoritative specimens of the forms which Hackel includes under this species, but judging from his description I think the plants cited above must be placed here. They show a wider variation in size than indicated by Hackel. In Staunton's specimen the culms reach 2 feet in length, while the Formosa plants are not more than 6 inches high.

1. **Beckmannia erucæformis**, *Host, Gram. Austr.* iii. p. 5, t. 6; *Franchet, Pl. David.* i. p. 322; *Maxim. Prim. Fl. Amur.* p. 479; *Debeaux, Fl. Shanghai,* p. 68; *Trin. in Bunge, Enum. Pl. Chin. Bor.* p. 70; *Palibin, in Act. Hort. Petrop.* xix. (1901) p. 134; *Komarow, ibid.* xx. (1901) p. 289.

CHIHLI: Peking (*David*, in herb. *Hance*, 4952! *Bretschneider*, 814!), Jehol (*David*, 1893!); SHINGKING (*Ross*, 44!), Moukden (*Webster*, 107!), between Moukden and Tungcheshien, and between Tungcheshien and Mäorshan, Yalu River (*James*!); KIANGSU: Fengwangshan (*Forbes*, 485!), Shanghai (*Maingay*, 725!), Chapu (*Oldham*, 18!); SZECHUEN: Tongolo (*Soulié*, 248!). Mus. Brit.; Herb. Kew.

Japan, North Asia, Asia Minor, Eastern Europe, North America.

1. **Eleusine coracana**, *Gaertn. Fruct.* i. p. 8, t. i. fig. 11; *Steud. Syn. Gram.* p. 211; *Nees, in Hook. & Arn. Bot. Beechey's Voy.* p. 249; *Franch. et Savat. Enum. Pl. Jap.* ii. p. 172; *Hack. in Bull. Herb. Boiss.* vii. (1899) p. 703; *Hook. f. Fl. Brit. Ind.* vii. p. 294.

Cynosurus coracanus, *Linn. Syst. Nat.* ed. 11, p. 875; *Thunb. Fl. Jap.* p. 51.

FORMOSA (*Oldham*, 615!); YUNNAN: South Mengtze, mountain forests at 5000 ft., side of streamlet (*A. Henry*, 10962!), Szemao, 4500 ft. (*A. Henry*, 12431!); KWANGTUNG: Lienchau, ? Canton (*Lamont*!); HAINAN (*A. Henry*, 8284!). Mus. Brit.; Herb. Kew.

Cultivated in the tropics of the Old World, probably originating from *Eleusine indica.*

2. **Eleusine indica,** *Gaertn. Fruct.* i. p. 8; *Steud. Syn. Gram.* p. 211; *Nees, in Hook. & Arn. Bot. Beechey's Voy.* p. 249; *Benth. Fl. Hongk.* p. 429; *Franchet, Pl. David.* i. p. 334, *et in Mém. Soc. Sci. Nat. Cherbourg,* xxiv. (1884) p. 268; *Debeaux, Fl. Tchefou,* p. 158; *Hook. f. Fl. Brit. Ind.* vii. p. 293; *Miq. in Ann. Mus. Bot. Lugd.-Bat.* ii. p. 279; *Franch. et Savat. Enum. Pl. Jap.* ii. p. 171; *Hack. in Bull. Herb. Boiss.* vii. (1899) p. 703, et sér. 2, iii. (1903) p. 503.

Cynosurus indicus, *Linn. Sp. Pl.* p. 72; *Lour. Fl. Cochinch.* p. 59; *Thunb. Fl. Jap.* p. 52.

KIANGSU: Hai city (*Faber,* 1539!), Shanghai (*Maingay,* 549!); FORMOSA (*Campbell*!), Takow (*A. Henry,* 1124!), Apes' Hill (*A. Henry,* 1013!); NORTH CENTRAL CHINA: Leunteon, Fenghosan (*Hugh*!); SHENSI: in and near water in the plain of Hukiascien (*Hugh*!); SZECHUEN: Omei plain (*Faber,* 1166!); KWANGTUNG: Macao (*Abel*!), Lienchau, Canton (*Lamont*!), Shamien, Canton (*Sampson,* 309!); HONGKONG: wet place, Happy Valley (*Lamont*!); CHINA: without locality (*Seemann*!). Mus. Brit.; Herb. Kew.

Warmer parts of the Old World.

1. **Dactyloctenium ægyptiacum,** *Willd. Enum. Hort. Berol.* p. 1029; *Steud. Syn. Gram.* p. 212; *Benth. Fl. Hongk.* p. 429.

Dactyloctenium mucronatum, *Willd. l. c.*; *Nees, in Hook. & Arn. Bot. Beechey's Voy.* p. 250.

Eleusine ægyptia, *Desf. Fl. Atlant.* i. p. 85; *A. Henry, in Trans. Asiat. Soc. Jap.* xxiv., *Suppl.* (1896) p. 109 (ægyptiaca); *Hook. f. Fl. Brit. Ind.* vii. p. 295 (ægyptiaca).

Cynosurus ægyptius, *Linn. Sp. Pl.* p. 72; *Lour. Fl. Cochinch.* p. 59; *Osbeck, Resa,* p. 232.

FORMOSA: Takow (*A. Henry,* 755, 1087!), Apes' Hill (*Playfair,* 110!), South Cape (*Schmürer, in coll. A. Henry,* 258!), without locality (*Campbell*!); KWANGTUNG: Whampoa (*Robertson*!); HONGKONG: Robinson road, Victoria (*Lamont*! *Wright*!). Mus. Brit.; Herb. Kew.

India, and warmer parts of the Old World.

1. **Leptochloa chinensis,** *Nees, in Syll. Pl. Nov. Ratisbon.* i. (1824) p. 5; *Steud. Syn. Gram.* p. 209; *Nees, in Hook. & Arn. Bot. Beechey's Voy.* p. 249; *Benth. Fl. Hongk.* p. 430; *Hack. in Bull. Herb. Boiss.* vii. (1899) p. 704; *Hook. f. Fl. Brit. Ind.* vii. p. 299.

Leptochloa tenerrima, *Miq. in Ann. Mus. Bot. Lugd.-Bat.* ii. p. 279, non *Kunth*; *Franch. et Savat. Enum. Pl. Jap.* ii. p. 171.

Poa chinensis, *Linn. Sp. Pl.* p. 69; *Osbeck, Resa,* p. 206; *Lour. Fl. Cochinch.* p. 54.

SHANTUNG (*Staunton*!); KIANGSU: Kianang (*Staunton*!); CHEKIANG: Ningpo Mts. (*Faber*, 282!); KIANGSI: Kiukiang (*Shearer*!); FOKIEN: Amoy (*Hance*, 1292 in part!); FORMOSA: Tamsui (*Oldham*, 614!); KWANGTUNG: Lienchau, Canton (*Lamont*!); HONGKONG (*Hance*, 1292 in part!). Mus. Brit.; Herb. Kew.

Japan, and tropics of Asia, Africa, and Australia.

2. **Leptochloa filiformis,** *Roem. & Schult. Syst.* ii. p. 580; *Steud. Syn. Gram.* p. 209; *Hook. f. Fl. Brit. Ind.* vii. p. 298.

Var. **humilior,** *Presl, Rel. Hænk.* i. p. 288; *Nees, in Hook. & Arn. Bot. Beechey's Voy.* p. 249.

Leptochloa tenerrima, *Roem. & Schult. l. c.* p. 581, probably belongs here.

KIANGSU: Shanghai (*Maingay*, 563!); SZECHUEN: Yangtzekiang, Min River (*Faber*, 1156!); KWANGTUNG: Macao (*Abel*!); HONGKONG: Government new gardens (*Lamont*!) (*Hance*, 1292 in part!). Mus. Brit.; Herb. Kew.

Tropics of Asia, Africa, and America.

Tribe FESTUCEÆ.

1. **Enneapogon brachystachyus,** *Stapf, in Dyer, Fl. Capens.* vii. p. 654.

Pappophorum brachystachyum, *Jaub. & Spach, Illustr. Pl. Or.* iv. t. 324; *Steud. Syn. Gram.* p. 201; *Hook. f. Fl. Brit. Ind.* vii. p. 302.

Pappophorum boreale, *Griseb. in Ledeb. Fl. Ross.* iv. p. 404; *Turcz. Fl. Baic.-Dahur.* ii. p. 317; *Steud. Syn. Gram. l. c.*; *Hance, in Journ. Linn. Soc., Bot.* xiii. (1873) p. 92.

CHIHLI: on the road near Kalgan (*Williams,* in herb. *Hance*, 14583!). Mus. Brit.; Herb. Kew.

Tropical and North Africa to North-west India and Central Asia. A variety in South Africa.

1. **Arundo Donax**, *Linn. Sp. Pl.* p. 81; *Lour. Fl. Cochinch.* p. 45; *Steud. Syn. Gram.* p. 193; *Hack. in Bull. Herb. Boiss.* vii. (1899) p. 705; *Hook. f. Fl. Brit. Ind.* vii. p. 302.

Arundo bengalensis, *Retz. Obs.* v. p. 20; *A. Henry, in Trans. Asiat. Soc. Jap.* xxiv., *Suppl.* (1896) p. 100.

Arundo bifaria, *Retz. Obs.* iv. p. 21.

Amphidonax bifaria, *Nees, ex Steud. Syn. Gram.* p. 197; *Miq. in Ann. Mus. Bot. Lugd.-Bat.* ii. p. 278; *Franch. et Savat. Enum. Pl. Jap.* ii. p. 171.

Yunnan: 8–10 ft. high, Mengtze at 4600 ft. (*A. Henry*, 9660 A!); Kwangtung: by North River, Canton (*Nevin and Graves*, in herb. *Hance*, 19303 in part!), Amoy (*Hance*, 1405!), Whampoa (*Hance*, 5501!). Mus. Brit.; Herb. Kew.

Mountains of India; Europe, Northern Africa, Temperate Asia.

Var. **coleotricha**, *Hack. in. Bull. Herb. Boiss.* vii. (1899) p. 724.

Formosa: Tamsui (*Makino*, fide *Hackel*).

I have seen no specimen.

2. **Arundo formosana**, *Hack. in Bull. Herb. Boiss.* vii. (1899) p. 724.

Formosa: Takow, Apes' Hill (*A. Henry*, 1153, 1153 A! *Playfair*, 299!), Bankinsing mountains (*A. Henry*, 1153 B!), Tamsui, sandhills (*Hancock*, 8!). Mus. Brit.; Herb. Kew.

Var. **gracilis**, *Hack. l. c.*

Formosa: Tamsui (*A. Henry*, 1462!). Herb. Kew.

I have not seen Professor Hackel's specimens and have referred the above to his species and variety on account of a general agreement with the descriptions. There is, however, one serious difference. Hackel describes the sterile glumes in his species as one-nerved, a remarkable character, whereas in the specimens which I have seen the sterile glumes are three-nerved as in other species of the genus. The spikelets are moreover two- to three-flowered, and show a wider range in size than is indicated in Hackel's description, which was based on a single specimen. The spikelets in the species are 2–4-flowered, and $2\frac{3}{4}$–4 lines long, the lower sterile glume ranges from $2\frac{1}{2}$–$2\frac{3}{4}$ lines, the upper from $2\frac{3}{4}$–3 lines, and the lowest fertile glume from 2–$2\frac{1}{2}$ lines long, with an awn $1\frac{1}{4}$–$1\frac{1}{2}$ lines long. The spikelets in the variety are 2-flowered, scarcely 2½ lines long, the two sterile glumes a little less and a little more than 1½ lines respectively, the lower fertile glume 1¾ lines long with an awn 1 line long.

1. **Neyraudia madagascariensis,** *Hook. f. Fl. Brit. Ind.* vii. p. 305; *Pilger, in Engl. Bot. Jahrb.* xxix. (1900) p. 225.

Arundo madagascariensis, *Kunth, Rév. Gram.* i. p. 273, t. 48; *Benth. Fl. Hongk.* p. 427.

Arundo Henslowiana, *Hook. & Arn. Bot. Beechey's Voy.* p. 248.

Arundo Reynaudiana, *Kunth, l. c.* p. 275, t. 49.

KIANGSI: Kiukiang (*Shearer*!); FOKIEN: Amoy (*Hance*, 1407!); HUPEH: Ichang gorge, River Yangtze (*Maries*!), Ichang (*A. Henry*, 94, 4317!); YUNNAN: Mengtze, 4600 ft. (*A. Henry*, 10063!), 7 ft. high, Szemao, 4000 ft. (*A. Henry*, 13544!); KWANGTUNG (*Staunton*!), Lienchau, Canton (*Lamont*!), Whampoa (*Hance*, 1490 in part!), face of city walls, Canton (*Sampson*, 308!), Macao (*Gaudichaud*!); HONGKONG: 3–4 ft. high, Robinson Road (*Hughes*! *Hance*, 1490 in part! *Champion*! *Wilford*, 250!); CHINA: South (*Seemann*, 2396!), without locality (*Seemann*! *Macartney*!). Mus. Brit.; Herb. Kew.

India, Malaya; Tropical Africa and Madagascar.

1. **Phragmites communis,** *Trin. Fund. Agrost.* p. 134; *Steud. Syn. Gram.* p. 195; *Franchet, in Mém. Soc. Sci. Nat. Cherbourg*, xxiv. (1884) p. 268, *et Pl. David.* ii. p. 334; *Debeaux, Fl. Tchefou*, p. 157, *et Fl. Tientsien*, p. 49; *Ledeb. Fl. Alt.* i. p. 88; *Komarow, in Act. Hort. Petrop.* xx. (1901) p. 289; *Turczan. Fl. Baic.-Dahur.* ii. p. 315; *Miq. in Ann. Mus. Bot. Lugd.-Bat.* ii. p. 278; *Franch. et Savat. Enum. Pl. Jap.* ii. p. 170; *Hack. in Bull. Herb. Boiss.* vii. (1899) p. 704, et sér. 2, iii. (1903) p. 504; *Hook. f. Fl. Brit. Ind.* vii. p. 303.

Phragmites longivalvis, *Steud. Syn. Gram.* p. 196; *Debeaux, Fl. Tientsien*, p. 49.

Arundo Phragmites, *Linn. Sp. Pl.* i. p. 81; *Maxim. Prim. Fl. Amur.* p. 321; *Regel, Tent. Fl. Ussur.* p. 168; *Thunb. Fl. Jap.* p. 55.

CHIHLI: Peking (*Williams*, in herb. *Hance*, 3472 in part!); SHINGKING: Newchang (*Webster*, 313!), between Tungcheshien and Mäorshan, Yalu River (*James*!); KIANGSI (*Staunton*!); FOKIEN: near Amoy (*Hance*, 3472 in part!); FORMOSA: Tamsui

(*Oldham*, 611, 612 !), side of creek Takow (*A. Henry*, 1149 !); Hupeh: Ichang (*A. Henry*, 79 !); Shensi: Kaolinsien (*Hugh* !); Kwangtung: near Canton (*Macartney* !), banks of the Canton River (*Sampson*, 1050 !). Mus. Brit.; Herb. Kew.

Widely distributed, especially in temperate regions.

2. **Phragmites Karka**, *Trin. ex Steud. Nom.* ii. p. 324; *Pilger, in Engl. Bot. Jahrb.* xxix. (1900) p. 225; *Hack. in Bull. Herb. Boiss.* vii. (1899) pp. 704, 723; *Hook. f. Fl. Brit. Ind.* vii. p. 304.

Phragmites Roxburghii, *Steud. l. c.*; *Benth. Fl. Hongk.* p. 428; *Debeaux, Fl. Shanghai*, p. 70; *Miq. in Ann. Mus. Bot. Lugd.-Bat.* ii. p. 278; *Franch. et Savat. Enum. Pl. Jap.* ii. p. 170.

Arundo Roxburghii, *Kunth, Rév. Gram.* i. p. 79; *A. Henry, in Trans. Asiat. Soc. Jap.* xxiv., *Suppl.* (1896) p. 109.

Shantung (*Maingay*, 67 !); Kiangsu: Shanghai (*Maingay*, 578 !); Formosa: Takow (*A. Henry*, 1205 !), Takow spit (*A. Henry*, 1208 !); Yunnan: Mengtze, moist places, 4500 ft. (*A. Henry*, 9209 !), ravine 4600 ft. (*A. Henry*, 9209 A !); Kwangtung: growing plentifully and gregariously and reaching a height of 15 feet on the banks of the Canton River (*Hance*, 6402 !). Mus. Brit.; Herb. Kew.

Widely distributed in the warmer parts of the world.

1. **Kœleria cristata**, *Pers. Syn.* i. p. 97; *Steud. Syn. Gram.* p. 292; *Trin. in Bunge, Enum. Pl. Chin. Bor.* p. 72; *Franchet, in Mém. Soc. Sci. Nat. Cherbourg*, xxiv. (1884) p. 270, *et Pl. David.* i. p. 335; *Pilger, in Engl. Bot. Jahrb.* xxix. (1900) p. 225; *Palibin, in Act. Hort. Petrop.* xix. (1901) p. 132; *Miq. in Ann. Mus. Bot. Lugd.-Bat.* ii. p. 283; *Franch. et Savat. Enum. Pl. Jap.* ii. p. 179; *Hack. in Bull. Herb. Boiss.* vii. (1899) p. 703, et in sér. 2, iii. (1903) p. 505; *Hook. f. Fl. Brit. Ind.* vii. p. 308; *Maxim. Prim. Fl. Amur.* p. 322; *Turcz. Fl. Baic.-Dahur.* ii. p. 338.

Shingking: Talienwan Bay (*Swinhoe*, in herb. *Hance*, 3611 in part !); Chihli: Peking (*Bretschneider*, 848 !); Shantung: Chefoo (*King*, in herb. *Hance*, 3611 in part ! *Perry* !); Kiangsu: Taihu Lake (*Forbes*, 498 !); Hupeh: Ichang (*A. Henry*, 3505 !); Shensi: Kusan (*Hugh* !), Mt. Laoysan, Tcuizscien (*Hugh* !); Corea: East (*Perry* !). Mus. Brit.; Herb. Kew.

Widely distributed in temperate regions.

1. **Diplachne fusca,** *Beauv. Agrost.* p. 163; *Hook. f. Fl. Brit. Ind.* vii. p. 329.

Uralepis fusca, *Steud. Syn. Gram.* p. 247.

SHANTUNG (*Staunton*!); FOKIEN: Amoy (*Hance*, 1399!); FORMOSA: Takow, rice-field (*A. Henry*, 1959!), Takow spit (*A. Henry*, 1822, 1822 A, 1846!). Mus. Brit.; Herb. Kew.

Warmer regions of Old World.

2. **Diplachne serotina,** *Link, Hort. Berol.* i. p. 155; var. **chinensis,** *Maxim. Fl. As. Or. Fragm.* p. 70; *Franchet, Pl. David.* i. p. 334; *Komarow, in Act. Hort. Petrop.* xx. (1901) p. 291; *Palibin, ibid.* xxi. (1903) p. 209.

Diplachne sinensis, *Hance, in Journ. Bot.* viii. (1870) p. 76; *Franchet, in Mém. Soc. Sci. Nat. Cherbourg*, xxiv. (1884) p. 270.

Molinia serotina, *Mert. & Koch, Deutschl. Fl.* i. p. 585.

CHIHLI: hills to the west of Peking (*Williams*, in herb. *Hance*, 12572!), Peking (*Bretschneider*, 853, 854!); SHINGKING: Kaichow to Kinchow (*Ross*, 263!); SHANTUNG: Chefoo (*Forbes*!). Mus. Brit.; Herb. Kew.

Var. **aristata,** *Hack. in Bull. Herb. Boiss.* vii. (1899) p. 704, et sér. 2, iii. (1903) p. 504.

SHENSI: Kaolinsien (*Hugh*!), Mt. Laoysan (*Hugh*!); COREA: Hills near Pyengyang (*Faurie*, 878, fide *Hackel*). Mus. Brit.

Japan.

3. **Diplachne squarrosa,** *Richter, Plant. Europ.* p. 72.

Molinia squarrosa, *Trin. in Ledeb. Ic. Pl. Ross.* t. 227; *Ledeb. Fl. Ross.* iv. p. 396.

Var. **longe-aristata,** *Rendle*, n. var. *Culmi* tenues, dense cæspitosi, ad $1\frac{1}{2}$-pedales, in parte superiore valde flexuosi. *Spiculæ* $4\frac{1}{4}$ lin. longæ; rhachilla glabra, sub floris autem utriusque articulationem breviter pilosa. *Glumæ* steriles lanceolatæ; gl. i. $1\frac{1}{8}$ lin. longa; gl. ii. 2 lin. longa, acuminata; gluma fertilis inferior, $2\frac{3}{4}$ lin. longa, cum arista terminali $3\frac{1}{4}$ lin. longa, lanceolata, in carinæ parte superiore et arista scabridula, 3-nervis, inter nervum lateralem et marginem utrinque sparse pilosula; palea $2\frac{1}{2}$ lin. longa, carinæ conspicuæ aristuliferæ (aristula $1\frac{1}{2}$ lin. longa); gluma floris superioris $2\frac{1}{8}$ lin. longa, breviter aristata.

SHENSI: Kaolinsien (*Hugh*!), Mt. Kiansan, Husienscien (*Hugh*!). Mus. Brit.

Distinguished from the species by its longer awned, less hairy fertile glume.

The species occurs in South-east Russia, and Central and Northern Asia.

1. **Molinia Fauriei,** *Hack. in Bull. Herb. Boiss.* sér. 2, iii. (1903) p. 504.

COREA: by streams near Naipiang (*Faurie*, 804, fide *Hackel*).

I have seen no specimen.

2. **Molinia japonica,** *Hack. in Bull. Herb. Boiss.* vii. (1899) p 704, et sér. 2, iii. (1903) p. 504.

COREA: hills near Ouensan (*Faurie*, 810, fide *Hackel*).

Japan.

I have seen no specimen.

1. **Eragrostis amabilis,** *Wright & Arn. ex Nees, in Hook & Arn. Bot. Beechey's Voy.* p. 251; *Steud. Syn. Gram.* p. 265; *Stapf, in Hook. f. Fl. Brit. Ind.* vii. p. 317.

Eragrostis unioloides, *Nees, ex Steud. Syn. Gram.* p. 264; *Benth. Fl. Hongk.* p. 432; *Hack. in Bull. Herb. Boiss.* vii. (1899) p. 724.

Poa unioloides, *Retz. Obs.* v. p. 19.

KWANGTUNG: Whampoa (*Robertson*!), Pakhoi (*Playfair*, 132!); Lofaushan (*Ford*, 128!); HONGKONG: Race-course, Happy Valley (*Lamont*! *Forbes*! *Harland*, 695, in herb. *Hance*, 1007!); CHINA: without locality (*Baird*!). Mus. Brit.; Herb. Kew.

Tropical Asia and Tropical Africa.

2. **Eragrostis elegantula,** *Steud. Syn. Gram.* p. 266; *Stapf, in Hook. f. Fl. Brit. Ind.* vii. p. 318.

FORMOSA: path in rice-field, east plain, Takow (*A. Henry*, 1820!); KWANGTUNG: Lienchau, Canton (*Lamont*!), near top of White Cloud Hills, Canton (*Sampson*, 1055!), Pakhoi (*Playfair*, 159!); HONGKONG: Lam Tong Island (*Wright*!) (*Wilford*, 247!); HAINAN: without locality (*A. Henry*, 8072!); KWANGSI: Lungchow (*Morse*, 367!). Mus. Brit.; Herb. Kew.

India.

3. **Eragrostis elongata,** *Jacq. Eclog. Gram.* p. 3, t. 3; *Steud. Syn. Gram.* p. 264; *Stapf, in Hook. f. Fl. Brit. Ind.* vii. p. 319.

Eragrostis atrovirens, *Hack. in Bull. Herb. Boiss.* vii. (1899) p. 725 (? of Trinius).

Eragrostis bahiensis, *Hance, in Journ. Linn. Soc., Bot.* xiii. (1873) p. 136 (non *Schrad.*).

Eragrostis Brownei, *Nees, ex Steud. Nom.* ed. 2, p. 562, *et in Hook. & Arn. Bot. Beechey's Voy.* p. 253; *Benth. Fl. Hongk.* p. 432; *Miq. in Ann. Mus. Bot. Lugd.-Bat.* ii. p. 281.

Eragrostis orientalis, *Nees, in Nov. Act. Nat. Cur.* xix., *Suppl.* i. (1843) p. 205, non *Trin.*; *Benth. Fl. Hongk.* p. 432; *A. Henry, in Trans. Asiat. Soc. Jap.* xxiv., *Suppl.* (1896) p. 109.

Eragrostis Willdenoviana, *Nees, in Hook. & Arn. Bot. Beechey's Voy.* p. 252.

Eragrostis zeylanica, *Nees, in Nov. Act. Nat. Cur.*, tom. cit. p. 204; *Benth. Fl. Hongk.* p. 433.

CHEKIANG: without locality (*Staunton* !); FORMOSA: Takow (*A. Henry*, 1019!), Apes' Hill (*A. Henry*, 1872! *Playfair*, 106!); KWANGTUNG: abundant near Canton (*Sampson*, 1796!), Whampoa (*Wright*! *Hance*, 11063 in part!); HONGKONG (*Hance*, 1004 in part, 11063 in part! *Harland*, 694, in herb. *Hance*, 1004 in part! *Seemann*, 749!), dry sunny places (*Hance*, 11064!); Victoria Race-course, Happy Valley, and roadside, West Point (*Lamont*!), Little Hongkong and Aberdeen (*Wilford*, 261!); LUCHU ARCHIPELAGO: hill-sides (*Wright*!). Mus. Brit.; Herb. Kew.

Tropical Asia; Australia.

4. **Eragrostis ferruginea,** *Beauv. Agrost.* p. 71; *Steud. Syn. Gram.* p. 267; *Debeaux, Fl. Tchefou*, p. 161; *Pilger, in Engl. Bot. Jahrb.* xxix. (1900) p. 225; *Franchet, Pl. David.* i. p. 335, et ii. p. 146; *Komarow, in Act. Hort. Petrop.* xx. (1901) p. 294; *Miq. in Ann. Mus. Bot. Lugd.-Bat.* ii. p. 280; *Franch. et Savat. Enum. Pl. Jap.* ii. p. 177; *Hack. in Bull. Herb. Boiss.* vii. (1899) p. 705, et sér. 2, iii. (1903) p. 505; *Stapf, in Hook. f. Fl. Brit. Ind.* vii. p. 324.

Eragrostis orientalis, *Trin. in Bunge, Enum. Pl. Chin. Bor.* p. 71.

Poa ferruginea, *Thunb. Fl. Jap.* p. 50; *Franchet, in Mém. Soc. Sci. Nat. Cherbourg*, xxiv. (1884) p. 270.

Poa orientalis, *Franchet, l. c.*

SHINGKING: Kaichow to Kinchow (*Ross*, 296!); KIANGSU:

Shanghai (*Maingay*, 548! *Seemann*! *Tonnerre*, in herb. *Hance*, 8133!); East Coast (*Home*!); Kiangsi: Nauk'angfu, Kiukiang (*Reid*!), Kiukiang (*Shearer*!); Hupeh: Ichang (*A. Henry*, 2743, 4288!); Shensi: Mt. Thaepeisan (*Hugh*!), Mt. Miaowansan (*Hugh*!), Kisanshien (*Hugh*!); Szechuen: Mt. Omei (*Faber*, 1179!); Yunnan: Mengtze, grass mountains to north, at 5000 ft. (*A. Henry*, 10602!); China: without locality (*Macartney*!). Mus. Brit.; Herb. Kew.

Japan, Himalayas.

5. **Eragrostis geniculata**, *Nees, in Nov. Act. Nat. Cur.* xix. *Suppl.* i. (1843) p. 203; *Benth. Fl. Hongk.* p. 433.

Eragrostis cylindrica, *Nees, in Hook. & Arn. Bot. Beechey's Voy.* p. 251.

Eragrostis Nevinii, *Hance, in Journ. Bot.* xviii. (1880) p. 302.

Fokien: Amoy (*Hance*, 1380 in part!); Kwangtung: Canton (*Sampson*, 316, 317! and in herb. *Hance*, 20602 in part!; *Hance*, 1380 in part!), by North River at Tsingiin (*Nevin*, in herb. *Hance*, 20602 in part!), Pakhoi (*Playfair*, 145!); Hongkong: Mt. Victoria (*Lamont*! *Wright*!); Hainan (*A. Henry*, 7970!). Mus. Brit.; Herb. Kew.

Hance's *Eragrostis Nevinii* (herb. 20602) is a robust form with broader leaves, somewhat laxer panicle, and the keels of the pale more shortly haired than in the type. I do not think it is specifically distinct.

6. **Eragrostis harpachnoides**, *Hack. in Oest. Bot. Zeitschr.* lii. (1902) p. 306.

Yunnan: roadsides at Peelongtau near Tapintze (*Delavay*, fide *Hackel*).

I have not seen a specimen.

7. **Eragrostis Hugoniana**, *Rendle*, n. sp.

Herba glauca, rhizomate brevi perennis; culmi ramosi, cæspitosi, ascendentes, nodis inferioribus geniculati, 4–5-nodi, teretes, ad 11 poll. alti et $\frac{2}{3}$ lin. crassi. *Foliorum* vaginæ internodiis sæpe breviores, laxæ, marginibus sparse pilosæ, ore barbatæ; ligula ad lineam breviter et dense pilosam reducta; lamina rigidula, lineari-acuminata, plana, margine glandulosa et sæpe involuta, facies superior in venis scabridula, ad 5 poll. longa, et vix

2 lin. lata. *Panicula* ellipsoidea, aut ob ramos demum patentes ovoidea, ad 6 poll. longa et 5½ poll. diametro; rhachis, rami, ramuli et pedicelli leves, pedicelli ad medium originemque, rami ramulique ad eorum origines glanduliferi; rami solitarii, inferiores 2½ ad 3 poll. longi, mox supra basin ramulosi, ramuli demum divaricati; spiculæ compactæ, olivaceæ, lineari-lanceolatæ, 10–18 flores, 2½ ad 6 lin. longæ quam pedicellæ longiores. *Glumæ* steriles inæquales, inferior lanceolata, subacuta, quam gl. superior ovata subacuta, ¾ lin. longa, paullo brevior; fertiles ovatæ, obtusiusculæ, 1 lin. longæ, nervis lateralibus 2 prominulis, e basi versus apicem rhachillæ deciduæ; paleæ glumis paullo breviores, persistentes; antheræ $\frac{1}{10}$ lin. longæ. *Fructus* oblongus, ½ lin. longus.

SHENSHI: Kaolinsien (*Hugh*!). Mus. Brit.

Approaches the Southern Indian and Ceylon species, *Eragrostis Willdenoviana*, Nees, which it recalls in general habit, but has a more compact spikelet, with less blunt flowering-glumes and less unequal barren glumes.

8. **Eragrostis interrupta,** *Beauv.*, var. **tenuissima,** *Stapf, in Hook. f. Fl. Brit. Ind.* vii. p. 316.

Eragrostis interrupta, *Beauv.*; *Pilger, in Engl. Bot. Jahrb.* xxix. (1900) p. 225.

Eragrostis japonica, *Trin. in Mém. Acad. Pétersb.* sér. 6, i. (1830) p. 450; *Hack. in Bull. Herb. Boiss.* vii. (1899) p. 705.

Eragrostis tenella, *Benth. Fl. Hongk.* p. 431; *Debeaux, Fl. Tchefou*, p. 161; *Franchet, in Mém. Soc. Sci. Nat. Cherbourg*, xxiv. (1884) p. 270, *et Pl. David.* i. p. 335; *Miq. in Ann. Mus. Bot. Lugd.-Bat.* ii. p. 280; *Franch. et Savat. Enum. Pl. Jap.* ii. p. 177.

Eragrostis tenuissima, *Schrad. ex Nees, Fl. Afr. Austr.* p. 410.

Poa japonica, *Thunb. Fl. Jap.* p. 51.

KIANGSU: Shanghai (*Maingay*, 559!), Chiukiang, Nank'angfu (*Reid*!); CHEKIANG: Ningpo Mountains (*Faber*!); FOKIEN: in rice-fields, Amoy (*Hance*, 1291, 3376 in part!); EAST COAST (*Home*!); FORMOSA (*Oldham*, 616!), Takow plain, in field (*A. Henry*, 2018!), Tamsui (*A. Henry*, 1450!); HUPEH: Ichang (*A. Henry*, 137, 2220!), Changyang (*A. Henry*, 7738!); SOUTH CHINA (*Petersen*, in herb. *Hance*, 3376 in part!); KWANGTUNG: Lienchau, Canton (*Lamont*!), North River, Canton (*Ford*, 7!), Lantao (*Ford*, 14!), Whampoa (*Robertson*! *Hance*!). Mus. Brit.; Herb. Kew.

Japan; Tropical Asia.

7 9. **Eragrostis major,** *Host, Gram. Austr.* iv. p. 14, t. 24; *Pilger, in Engl. Bot. Jahrb.* xxix. (1900) p. 225; *Palibin, in Act. Hort. Petrop.* xix. (1901) p. 133; *Hack. in Bull. Herb. Boiss.* vii. (1899) p. 706, et sér. 2, iii. (1903) p. 505; *Stapf, in Hook. f. Fl. Brit. Ind.* vii. p. 320.

Eragrostis megastachya, *Link, Hort. Berol.* i. p. 187; *Nees, in Hook. & Arn. Bot. Beechey's Voy.* p. 251; *Debeaux, Fl. Tchefou*, p. 160; *Franchet, Pl. David.* i. p. 335; *Franch. et Savat. Enum. Pl. Jap.* ii. p. 177; *Ledeb. Fl. Ross.* iv. p. 382; *Komarow, in Act. Hort. Petrop.* xx. (1901) p. 294.

Eragrostis poæoides, *Trin. in Mém. Acad. Sci. Pétersb.* sér. 6, i. (1830) p 404.

Poa megastachya, *Koel. Descr. Gram.* p. 181; *Franchet, in Mém. Soc. Sci. Nat. Cherbourg*, xxiv. (1884) p. 269.

CHINA: without locality (*Fortune*, 3!); CHIHLI: Peking (*Bretschneider*, 859! *Bushell*!); SHINGKING: Newchang (*Webster*, 311!) (*Ross*, 44!); SHANTUNG: Chefoo (*Stuhlmann* in herb. *Hance*, 3514 in part!); KIANGSU: Shanghai (*Maingay*, 547, 741!); KIANGSI: Kiukiang (*Shearer*!); FOKIEN: without locality (*De Grijs*, in herb. *Hance*, 3514 in part!); HUPEH: Ichang (*A. Henry*, 172!); CHINA: East Coast (*Home*!); FORMOSA (*Campbell*!), Apes' Hill, Takow (*A. Henry*, 1207!); NORTH CENTRAL CHINA: Leunteon, Fenghosan (*Hugh*!); SHENSI: Paoki, Miaowansan (*Hugh*!), Kusan, Kisansien (*Hugh*!); KWANGTUNG (*Ford*, 216!). Mus. Brit.; Herb. Kew.

Japan, warmer parts of Asia; Mediterranean region, Tropical and South Africa, warmer parts of America.

10. **Eragrostis Makinoi,** *Hack. in Bull. Herb. Boiss.* vii. (1899) p. 725.

FORMOSA: Shinchiku (*Makino*, fide *Hackel*).

I have seen no specimen.

11. **Eragrostis minor**, *Host, Gram. Austr.* iv. p. 15; *Hack. in Bull. Herb. Boiss.* vii. (1899) p. 724, et sér. 2, iii. (1903) p. 505; *Stapf, in Hook. f. Fl. Brit. Ind.* vii. p. 321.

Eragrostis poæoides, *Beauv. Agrost.* p. 162; *Komarow, in Act. Hort. Petrop.* xx. (1901) p. 293; *Ledeb. Fl. Ross.* iv. p. 381; *Turcz. Fl. Baic.-Dahur.* ii. p. 329.

CHIHLI: near Peking (*Bushell*!); NORTH CENTRAL CHINA: Leunteon, Fenghosan (*Hugh*!); SZECHUEN: Yangtzekiang (*Faber*, 1131!); KWANGTUNG: Lienchau (*Lamont*!). Mus. Brit.; Herb. Kew.

South Europe, North Africa to Abyssinia, Temperate Asia, and Northern India.

12. **Eragrostis pilosa**, *Beauv. Agrost.* p. 71; *Steud. Syn. Gram.* p. 263; *Benth. Fl. Hongk.* p. 432; *Debeaux, Fl. Tchefou*, p. 159; *Franchet, Pl. David.* i. p. 335 (et var. *imberbis*); *Miq. in Ann. Mus. Bot. Lugd.-Bat.* ii. p. 280; *Franch. et Savat. Enum. Pl. Jap.* ii. p. 176; *Hack. in Bull. Herb. Boiss.* vii. (1899) p. 706, et sér. 2, iii. (1903) p. 505; *Ledeb. Fl. Ross.* iv. p. 382; *Turcz. Fl. Baic.-Dahur.* ii. p. 329; *Maxim. Prim. Fl. Amur.* p. 320; *Regel, Tent. Fl. Ussur.* p. 168; *Komarow, in Act. Hort. Petrop.* xx. (1901) p. 292; *Stapf, in Hook. f. Fl. Brit. Ind.* vii. p. 323.

Eragrostis verticillata, *Beauv. l. c.*; *Nees, in Hook. & Arn. Bot. Beechey's Voy.* p. 253.

Poa pilosa, *Linn. Sp. Pl.* p. 68; *Franchet, in Mém. Soc. Sci. Nat. Cherbourg*, xxiv. (1884) p. 269.

SHINGKING: Newchang plain (*Faber*, 1530!), Kaichow to Kinchow (*Ross*, 291!); SHANTUNG (*Maingay*, 72, 216!); KIANGSU: Shanghai (*Maingay*, 698!); HUPEH (*A. Henry*, 5001!); SHENSI: Paoki, Mt. Miaowansan (*Hugh*!), Mt. Thaepeisan (*Hugh*!); SZECHUEN: Mt. Omei (*Faber*, 1172!); KWANGTUNG: Whampoa (*Hance*, 3573! *Wright*!), Canton (*Sampson*, 315!). Mus. Brit.; Herb. Kew.

Japan; Southern Europe, and widely distributed in the warmer parts of the earth.

13. **Eragrostis pilosissima**, *Link, Hort. Berol.* i. p. 189; *Steud. Syn. Gram.* p. 280; *Benth. Fl. Hongk.* p. 432.

Eragrostis Millettii, *Nees, in Hook. & Arn. Bot. Beechey's Voy.* p. 252.

KWANGTUNG: Pakwan Mountains, near Canton (*Sampson*, in herb. *Hance*, 1311!), Lofaushan (*Ford*, 133!), British Kowlung (*Ford*, 593!), Whampoa (*Wright*!), Macao (*Vachell*!); HONGKONG (*Hance*, 1311! *Harland*, 1007! *Ford*, in herb. *Forbes*, 489!). Mus. Brit.; Herb. Kew.

Japan.

14. **Eragrostis stenophylla**, *Hochst. ex Miq. Anal. Bot. Ind.* ii. p. 27; *Stapf, in Hook. f. Fl. Brit. Ind.* vii. p. 318.

HONGKONG: hill-sides in small tufts and along mountain rivulets in crevices of rocks (*Wright*!). Herb. Kew.

Tropical Asia and Africa.

15. **Eragrostis tenella,** *Roem. et Schult. Syst.* ii. p. 576; *Steud. Syn. Gram.* p, 315.

Eragrostis tenella, var. plumosa, *Stapf, in Hook. f. Fl. Brit. Ind.* vii. p. 315.

Eragrostis plumosa, *Link, Hort. Berol.* i. p. 192; *Steud. l. c.*; *Nees, in Hook. & Arn. Bot. Beechey's Voy.* p. 254; *Benth. Fl. Hongk.* p. 431; *Hack. in Bull. Herb. Boiss.* vii. (1899) p. 724.

Poa plumosa, *Retz. Obs.* iv. p. 20.

FORMOSA (*Campbell!*); KWANGTUNG: Canton (*Sampson*, 313!), Pakhoi (*Playfair*, 148!); HONGKONG: on walls (*Hance*, 1291!) (*Harland!*); CHINA; without locality (*Macartney! Millett!*). Mus. Brit.; Herb. Kew.

Tropical Asia, Africa.

1. **Diarrhena japonica,** *Franch. et Savat. Enum. Pl. Jap.* ii. p. 603; *Hack. in Bull. Herb. Boiss.* vii. (1899) p. 707, et sér. 2, iii. (1903) p. 505.

Onœa japonica, *Franch. et Savat. loc. cit.* p. 178.

COREA: woods near Ouensan (*Faurie*, 835, ex *Hackel*).

Japan.

1. **Melica Gmelini,** *Turcz. ex Trin. in Mém. Acad. Sci. Pétersb.* sér. 6, i. (1831) p. 368; *Steud. Syn. Gram.* p. 289; *Franchet, Pl. David.* i. p. 336; *Komarow, in Act. Hort. Petrop.* xx. (1901) p. 296; *Maxim. Prim. Fl. Amur.* p. 322; *Regel, Tent. Fl. Ussur.* p. 169; *Ledeb. Fl. Ross.* iv. p. 398.

CHIHLI: near top of Mt. Pohuashan, at 6000–7000 ft. (*Moellendorff*, in herb. *Hance*, 3605!). Mus. Brit.

North Asia.

2. **Melica nutans,** *Linn. Sp. Pl.* p. 66; *Steud. Syn. Gram.* p. 291; *Franch. et Savat. Enum. Pl. Jap.* ii. p. 178; *Hack. in Bull. Herb. Boiss.* vii. (1899) p. 706; *Komarow, in Act. Hort. Petrop.* xx. (1901) p. 297; *Maxim. Prim. Fl. Amur.* p. 322; *Regel, Tent. Fl. Ussur.* p. 169; *Turcz. Fl. Baic.-Dahur.* ii. p. 336; *Hook. f. Fl. Brit. Ind.* vii. p. 330.

SHINGKING: between Moukden and Tungcheshien (*James!*); CHEKIANG or SHANTUNG (*Faber*, 289 or 291!). Herb. Kew.

Japan, North and Central Asia, Himalayas, Europe.

Faber's specimen (the locality of which is uncertain owing to a mixing of two labels) resembles specimens collected in Japan by the 'Challenger' Expedition in having whitish-green spikelets.

3. **Melica Onœi,** *Franch. et Savat. Enum. Pl. Jap.* ii. p. 603; *Hack. in Bull. Herb. Boiss.* vii. (1899) p. 707, et sér. 2, iii. (1903) p. 505.

CHEKIANG: Ningpo Mountains (*Faber*, 12, 1733!); HUPEH: Fang (*A. Henry*, 6641, 6716!); SZECHUEN: North Wushan, 4000–7000 feet (*A. Henry*, 7034!); COREA: hills near Ouensan (*Faurie*, 809, ex *Hackel*). Mus. Brit.; Herb. Kew.

Japan.

I have seen no authenticated specimen of this species; the plants referred to it agree fairly with the author's description, though the spikelets in specimens collected by Henry and Faber are slightly larger.

4. **Melica Radula,** *Franchet, Pl. David.* i. p. 336.

SHENSI: Kusan (*Hugh*!), Mt. Laoysan, Tcuizscien (*Hugh*!). Mus. Brit.

I have seen no authenticated specimen of this species; Father Hugh's plants agree fairly well with Franchet's description.

5. **Melica scabrosa,** *Trin. in Bunge, Enum. Pl. Chin. Bor.* p. 72; *Steud. Syn. Gram.* p. 291; *Franchet, Pl. David.* i. p. 336, *et in Mém. Soc. Sci. Nat. Cherb.* xxiv. (1884) p. 270; *Kanitz, in Math. Naturw. Ber. Ungarn,* iii. (1885) p. 10; *Baker & Moore, in Journ. Linn. Soc., Bot.* xvii. (1879) p. 388; *Komarow, in Act. Hort. Petrop.* xx. (1901) p. 297; *Hack. in Bull. Herb. Boiss.* sér. 2, iii. (1903) p. 505.

CHIHLI: mountain west of Peking (*Bretschneider*, in herb. *Forbes*, 1984!); SZECHUEN: Wushan gorge, Yangtzekiang (*Faber*, 1178!). Mus. Brit.; Herb. Kew.

The plant from Nanchuan referred by Pilger (in Engl. Bot. Jahrb. xxix. p. 225) to *Melica scabra*, Linn., belongs here.

1. **Centotheca lappacea,** *Desv. in Nouv. Bull. Soc. Philom.* ii. (1810) p. 189; *Steud. Syn. Gram.* p. 116; *Benth. in Hook. Niger Fl.* p. 56; *Hance, in Journ. Linn. Soc., Bot.* xiii. (1873) p. 136; *Rendle, in Cat. Afr. Pl. Welw.* ii. p. 228.

Holcus latifolius, *Osbeck, Resa*, p. 247; *Linn. Syst.* ed. 10, p. 1305.

FORMOSA: Bankinsing (*A. Henry*, 99!); KWANGTUNG: White

Cloud hills, Canton (*Sampson*, 1556 !), mainland opposite Hongkong (*Harland*, in herb. *Hance*, 2131 in part !); HONGKONG (*Hance*, 2131 in part !), Happy Valley woods (*Lamont* !), ravine leading up to 900 yards range (*Urquhart*, 250 !). Mus. Brit.; Herb. Kew.

Tropical Asia to Polynesia and Tropical Australia; Tropical Africa.

Var. **inermis**, *Rendle*, n. var. *Folia* speciei ad 7 poll. longa et 1½ poll. lata. *Panicula* triangulari-ovata, densa, 3¾ poll. longa et lata, rami horizontaliter patentes, secundi, spiculis nutantibus; spiculæ ¼ poll. longæ, 3–4-floræ. *Glumæ* florentes rarissime setam solitariam sub apice gerentes.

FORMOSA: Bankinsing (*A. Henry*, 417 !). Herb. Kew.

At first sight this has the appearance of a distinct species, owing to the habit of the inflorescence with crowded secund branches and nodding spikelets. But, except for the practically complete absence of the characteristic recurved bristles of the flowering glumes, the spikelets do not differ from those of the species—in which, moreover, there is considerable variation in the number of bristles on the glumes.

1. **Lophatherum gracile,** *Brongn. in Duperrey, Voyage, Bot.* p. 50, t. 8; *Steud. Syn. Gram.* p. 300; *Benth. Fl. Hongk.* p. 433; *Hack. in Bull. Herb. Boiss.* vii. (1899) p. 707; *Franchet, Pl. David.* i. p. 337; *Pilger, in Engl. Bot. Jahrb.* xxix. (1900) p. 225; *Hook. f. Fl. Brit. Ind.* vii. p. 331.

Lophatherum elatum, *Zoll. et Mor. in Mor. Syst. Verz.* p. 102; *Franch. et Savat. Enum. Pl. Jap.* ii. p. 179; *Hack. in Engl. Bot. Jahrb.* vi. (1884) p. 50.

Lophatherum japonicum, *Steud. Syn. Gram.* p. 300.

Lophatherum Lehmanni, *Nees, ex Steud. l. c.*; *A. Henry, in Trans. Asiat. Soc. Jap.* xxiv. *Suppl.* (1896) p. 109.

CHEKIANG: Ningpo Mountains (*Faber*, 284 !); FOKIEN: Amoy (*Hance*, 1013 in part !); FORMOSA (*Oldham*, 618 !), Bankinsing Mountains (*A. Henry*, 1647 !); HUPEH: West (*Wilson*, 533 !), Nanto and mountains to the northward (*A. Henry*, 4635 !); SZECHUEN: Mt. Omei (*Faber*, 1184 !; KWANGTUNG: wood at White Cloud Monastery, Canton (*Sampson*, 1166 !); HONGKONG: Happy Valley woods (*Lamont* ! *Ford*, 595 ! *Hance*, 1013 in part ! *Wright* !); LUCHU ARCHIPELAGO (*Wright* !). Mus. Brit.; Herb. Kew.

Japan, Hill country of India and Ceylon, Malaya.

2. **Lophatherum sinense**, *Rendle*, n. sp.

Herba; culmus (e specimine unico quod ex internodiis culmi superioribus tribus constat) teres, 1 lin. crassus, internodium supremum, ad paniculæ basin, 14 poll. longum. *Foliorum* vaginæ internodia haud æquantes, striatæ, sparsius scabridulo-pilosæ; ligula obsoleta; lamina vix petiolata, lanceolata, acuminata, flaccida, glabra, tesselata, ad 6 poll. longa, ¾ poll. lata. *Panicula* 8 poll. longa, rami distantes 5, rigide patento-ascendentes, infimus 2 poll. longus; spiculæ late lanceolatæ, 3½ lin. longæ. *Glumæ* steriles dorso rotundatæ, obtusæ, 5-nerves, glabræ, inferior late oblonga, 2 lin. longa, superior ovata, 2¼ lin. longa; fertilis latissime ovata, mucronata, 7-nervis, glabra, cum mucrone (½ lin.) 3 lin. longa, 2⅔ lin. lata; palea 2½ lin. longa. *Caryopsis* ovoidea, 1½ lin. longa, ⅔ lin. lata.

KIANGSI: Kiukiang (*Shearer*!). Herb. Kew.

Distinguished from *Lophatherum gracile* by the broader spikelet, very broad fertile glume, and broad ovoid grain.

1. **Æluropus littoralis**, *Parl. Fl. Ital.* i. p. 461; *Ledeb. Fl. Ross.* iv. p. 369; var. **sinensis**, *Debeaux, Fl. Tientsin*, p. 50.

CHIHLI: sands at Peiho, Tientsin (*Debeaux*).

The species occurs in the Mediterranean region and North Asia.

1. **Dactylis glomerata**, *Linn. Sp. Pl.* p. 71; *Steud. Syn. Gram.* p. 297; *Franchet, Pl. David.* i. p. 146; *Pilger, in Engl. Bot. Jahrb.* xxix. (1900) p. 225; *Franch. et Savat. Enum. Pl. Jap.* ii. p. 179; *Hack. in Bull. Herb. Boiss.* vii. (1899) p. 708; *Hook. f. Fl. Brit. Ind.* vii. p. 335.

HUPEH: Hsingshan (*A. Henry*, 6530 A!), Patung (*A. Henry*, 4673!); SZECHUEN: Tachienlu (*Pratt*, 121!); YUNNAN: Mengtze, grass mountains to south, 5000 feet (*A. Henry*, 10740!). Mus. Brit.; Herb. Kew.

Europe, North Africa, West and North Asia, and Himalayas.

1. **Briza elegans**, *Osbeck, Resa*, p. 246.

KWANGTUNG: near Canton (*Osbeck*).

I have not seen this specimen. It is described as an exceedingly fine grass, which grew near the highest plantations, having oblong spikelets and keeled glumes. It may perhaps be a synonym of *Eragrostis major*, Host.

2. **Briza minor**, *Linn. Sp. Pl.* p. 70; *Steud. Syn. Gram.* p. 282; *Franchet, Pl. David.* i. p. 337; *Hack. in Engl. Bot. Jahrb.* vi. (1884) p. 50; *Franch. et Savat. Enum. Pl. Jap.* ii. p. 178; *Hack. in Bull. Herb. Boiss.* vii. (1899) p. 708.

CHIHLI: environs of Jehol (*David*, ex *Franchet*).

Europe, North Africa, Western Asia; widely distributed as an alien.

1. **Poa acroleuca**, *Steud. Syn. Gram.* p. 256; *Pilger, in Engl. Bot. Jahrb.* xxix. (1900) p. 226; *Franchet, Pl. David.* ii. p. 145; *Palibin, in Act. Hort. Petrop.* xix. (1901) p. 133; *Miq. in Ann. Mus. Bot. Lugd.-Bat.* ii. p. 280; *Franch. et Savat. Enum. Pl. Jap.* ii. p. 175; *Hack. in Bull. Herb. Boiss.* vii. (1899) p. 710, et sér. 2, iii. (1903) p. 506.

CHINA, without locality (*Faber*!); SHINGKING: Peiling (*Webster*, 99!); KIANGSU: Chinkiang (*Maries*!); HUPEH (*A. Henry*, 5792!); SHENSI: Paoki, Chifengsan (*Hugh*!), Hansunfu, Mt. Leansan (*Hugh*!), Mt. Laoysan, Tcuizscien (*Hugh*); SZECHUEN: South Wushan (*A. Henry*, 5685!); COREA: Port Hamilton (*Wilford*, 714!); LUCHU ARCHIPELAGO (*Wright*!). Mus. Brit.; Herb. Kew.

Japan.

2. **Poa annua**, *Linn. Sp. Pl.* p. 68; *Steud. Syn. Gram.* p. 250; *Pilger, in Engl. Bot. Jahrb.* xxix. (1900) p. 226; *Miq. in Ann. Mus. Bot. Lugd.-Bat.* ii. p. 279; *Franch. et Savat. Enum. Pl. Jap.* ii. p. 174; *Hack. in Bull. Herb. Boiss.* vii. (1899) p. 708; *Stapf, in Hook. f. Fl. Brit. Ind.* vii. p. 345; *Turcz. Fl. Baic.-Dahur.* ii. p. 327.

KIANGSU: Shanghai (*Maingay*, 580!); KIANGSI: Kiukiang (*Faber*, 1150!); FORMOSA (*Oldham*, 617!); HUPEH: Patung (*Wilson*, 1646! *A. Henry*, 3746, 5425!), Ichang (*A. Henry*, 824!). Mus. Brit.; Herb. Kew.

Japan, mountains of India, Temperate Asia, Europe. Widely colonised in other countries.

Var. **nepalensis**, *Griseb. Goett. Nachricht.* 1868, p. 75; *Stapf*, *in Hook. f. Fl. Brit. Ind.* vii. p. 346; *Pilger, in Engl. Bot. Jahrb.* xxix. (1900) p. 226.

Poa nepalensis, *Wall. ex Duthie, Grasses N.W. India*, p. 40 (nomen); *Franchet, Pl. David.* ii. p. 145.

SZECHUEN: Moupin (*David*, ex *Franchet*).

Western Himalayas.

3. **Poa attenuata**, *Trin. in Bunge, Verz. Suppl. Fl. Altaic.* p. 9; *Steud. Syn. Gram.* p. 254; *Stapf, in Hook. f. Fl. Brit. Ind.* vii. p. 340; *Turcz. Fl. Baic.-Dahur.* ii. p. 324.

Poa nemoralis, var., *Hance, in Journ. Bot.* xviii. (1880) p. 303.

CHIHLI: near the top of Mt. Pohuashan, 6000–7000 feet (*Moellendorff*, in herb. *Hance*, 20314!). Mus. Brit.; Herb. Kew.

Himalayas, Central and North Asia.

A small form of the species.

Var. **vivipara**, *Rendle*, n. var. *Herba* humilis; culmi (cum panicula) 5–7-pollicares. *Folia* plana vel plicata, lineari-acuminata, ad $2\frac{3}{4}$ poll. longa; ligula lata, obtusa vel abrupte acuta, $1\frac{1}{4}$ lin. longa; lamina suprema vaginam excedens. *Panicula* $1\frac{3}{4}$–$2\frac{1}{4}$ poll. longa, lineari-oblanceolata, densa; rami ad quemque nodum gemini, scabridi, suberecti, sub apice pauci-spiculiferi; spiculæ 2 lin. longæ, ovato-lanceolatæ, viviparæ, violaceæ. *Glumæ* steriles cum carina sub apice solum scabridulæ; callus glumæ fertilis breviter et sparse pilosus, carina et nervi marginales ad basin tantum pilosa; antheræ $\frac{1}{15}$ poll. longæ.

SHENSI: Mt. Miaowansan (*Hugh*!). Mus. Brit.

4. **Poa Faberi**, *Rendle*, n. sp.

Herba perennis, glabra, rhizomate duro; culmi sesquipedales, conferti, graciles, basi breviter decumbentes et cum vaginis scariosis brunneis circumdati. *Folia* caulina tria, nodum supremum sub medio culmi positum; vaginæ striatæ, subscabridulæ; ligula acuta, ad 2 lin. longa; lamina plana, linearis, basi angustata, superne longe attenuata, scabridula, nervis primariis tribus; folii supremi vagina $4\frac{1}{3}$ poll. longa, lamina $3\frac{1}{2}$ poll. longa, $\frac{3}{4}$ lin. lata; folii secundi vagina 3 poll. longa, lamina 4 poll. longa. *Panicula* lanceolata, densa, $4\frac{1}{2}$ poll. longa, axis et rami tenues, scabriduli; rami flexuosi in parte inferiore nudi, superne sparse et breviter ramulosi, dense et stricte spiculiferi, ad nodum infe-

riorem 5, 1–2 poll. longi; spiculæ oblanceolatæ et obovatæ, 4-floræ, rigidulæ, 2½ lin. longæ, pedicellos scabridulos excedentes. *Glumæ* steriles acutæ, lanceolatæ, 3-nerves, in carina nervisque lateralibus scabridæ; superior latior et longior (vix 1½ lin. longa) quam inferior; florentes ovatæ obtusæ, apice breviter membranaceæ, 5-nerves, carina scabrida et velut nervis marginalibus ad medium pilosa, pedicellus contexto-lanatus; gl. infima 1½ lin. longa; palea 1¼ lin. longa; carinis ciliolatis; antheræ ½ lin. longæ.

KIANGSU: Shanghai (*Faber*, 293!); SHENSI: Mt. Laoysan, Tcuizscien (*Hugh*!), Kaolinsien (*Hugh*!), Hansunfu, Mt. Leansan (*Hugh*!). Mus. Brit.; Herb. Kew.

A distinct species of the *Poa nemoralis* group, differentiated by its long acute ligule, dense narrow panicle with quinate branches which are free from spikelets below, and minute anthers.

Var. **ligulata**, *Rendle*, n. var. *Planta* gracilis, bipedalis; ligula elongata, acuta, ad 5 lin. longa. *Panicula* gracilis; spiculæ bifloræ.

SZECHUEN: Fou, Yangtzekiang (*Faber*, 1159!). Herb. Kew.

5. **Poa gracillima**, *Rendle*, n. sp.

Herba humilis, ut apparet cæspitosa, glabra, 4 poll. alta; culmi tenues, compressi. *Folia* caulina 3, supremum basin paniculæ amplectans; vagina suprema quam inferiores longior (10 lin. longa) laminæ æquans, lamina folii secundi longior (1¼ poll. longa); vaginæ strictæ, compressæ, striatæ; ligula vix ⅓ lin. longa, obtusa; lamina linearis, superne longe attenuata, plana, flaccida, ¾ lin. lata. *Panicula* 1¾ poll. longa, rhachis capillaris, flexuosa, levis, nodis 5, rami distantes, ascendentes, solitarii, tenuissimi, scabriduli, parte inferiore (ad dimidiam) nudi, superne 5–1-spiculiferi; rami duo infimi semipollicares, interdum cum ramulo breve 2-spiculifero. *Spiculæ* ellipticæ, 2–3-floræ, 1¼ lin. longæ; pedicello scabridulo spiculam æquante. *Glumæ* subrigidulæ, steriles, lanceolatæ, acutæ, cum carina scabridula, inferior uninervis, ½ lin. longa, superior latior, trinervis, ⅞ lin. longa; fertiles omnino glabræ, plicatæ, oblongo-lanceolatæ, obtusæ, in parte ⅕ superiore membranaceæ, albidæ, 5-nerves, in carina scabridulæ, inferior 1 lin. longa, palea paullo brevior, carinis in parte superiore scabridulis; antheræ vix ¼ lin. longæ.

Szechuen: Mt. Omei (*Faber*, 1185 !). Herb. Kew.

A very small delicate specimen, suggesting somewhat a dwarf form of *Poa annua*, but differing in the habit of the panicle and the complete absence of hair on the fertile glumes, which are also less membranous than in *P. annua.*

6. **Poa Mariesii,** *Rendle*, n. sp.

Planta subrobusta; culmi flexuosi, erecti, sub medio 1½ lin. crassi, internodiis levibus striatis. *Folia* culmi 4, supremum basin paniculæ vaginans; vaginæ laxæ, striatæ, glabræ, suprema quam inferiores paullo longior (circa 5 poll. longa) quam ejus lamina paullo brevior; ligula brevis, truncata, 1 lin. longa; lamina linearis, superne longe attenuata, plana, flaccida, multinervis, glabra, 3 lin. lata, 5–6⅔ poll. longa; suprema quam secunda paullo brevior. *Panicula* subpyramidalis, flexuosa, 8½ poll. longa, 2–2½ poll. lata, ramis geminis, axis in parte superiore solum subscabridulus ceterum levis, rami in parte superiore subscabriduli, ramuli scabriduli; rami ad nodum infimum 3 poll. et 2⅙ poll. longi, superne gradatim deminuentes, in parte inferiore (⅓–½) nudi, superne (cum ramulis) subdense spiculiferi; spiculæ ellipticæ, 5–6-floræ, 3 lin. longæ. *Glumæ* steriles lanceolatæ, acutæ, apice membranaceæ et albidæ, inferior 1½ lin. longa, uninervis, superior 3-nervis, 1⅚ lin. longa, quam inferior latior et minus acuta; fertiles firmæ, dum plicatæ lanceolatæ, obtusæ vel subacutæ, apice et margine membranaceæ et albidæ, 5-nerves, carina (ad ¾–⅘ longitudinis) ut nervus marginalis (ad ½–¾ longit.) dense et regulariter pilosa, pilis ¼ lin. longa; infima 2⅓ lin. longa; carinæ paleæ ciliolatæ; antheræ ½ lin. longæ; pedicellus breviter contortuplicato-lanatus.

Kiangsu: Chiukiang and River Yangtze (*Maries* !). Herb. Kew.

A well-marked species of the *Poa pratensis* group, characterized by its robust habit, large broad leaves, the upper blade being nearly as long as that of the leaf at the second node, the large panicle, the 4–5-flowered spikelets, the very hairy keels and marginal nerves of the fertile glumes, and the small anthers.

7. **Poa nemoralis,** *Linn. Sp. Pl.* p. 69; *Steud. Syn. Gram.* p. 251; *Miq. in Ann. Mus. Bot. Lugd.-Bat.* ii. p. 280; *Franch. et Savat. Enum. Pl. Jap.* ii. p. 174; *Hack. in Bull. Herb. Boiss.*

vii. (1899) p. 710; *Stapf, in Hook. f. Fl. Brit. Ind.* vii. p. 341; *Turcz. Fl. Baic.-Dahur.* ii. p. 327.

SHENSI: Mt. Miaowansan (*Hugh*!). Mus. Brit.

Var. **ligulata**, *Stapf, in Hook. f. Fl. Brit. Ind.* vii. p. 341.

HUPEH (*A. Henry*, 6807!). Mus. Brit.; Herb. Kew.

Himalayas.

The specimen, which is in fruit, is not in a very satisfactory condition for determination.

Var. **mongolica**, *Rendle*, n. var. *Paniculæ* rami tantum in parte superiore ramulosi et spiculiferi. *Glumæ* fertiles in carina ad $\frac{2}{3}$ longit. longius pilosæ, in nervo marginale ad $\frac{2}{5}$ longit.

SHINGKING: between Moukden and Tungcheshien (*James*!). Herb. Kew.

The geminate branches of the panicle, which are bare and unbranched for half or more than half their length, give a characteristic appearance to the inflorescence. The keel and marginal nerves of the fertile glumes bear more and longer hairs than usual in the species. There is a scanty tuft of wool on the short pedicel.

8. **Poa pratensis**, *Linn. Sp. Pl.* p. 67; *Steud. Syn. Gram.* p. 251; *Baker & Moore, in Journ. Linn. Soc., Bot.* xvii. (1879) p. 388; *Franchet, Pl. David.* i. p. 337; *Miq. in Ann. Mus. Bot. Lugd.-Bat.* ii. p. 280; *Franch. et Savat. Enum. Pl. Jap.* ii. p. 174; *Hack. in Bull. Herb. Boiss.* vii. (1899) p. 708, et sér. 2, iii. (1903) p. 506; *Stapf, in Hook. f. Fl. Brit. Ind.* vii. p. 339; *Turcz. Fl. Baic.-Dahur.* ii. p. 328.

CHIHLI: Jehol (*David*, 1807!); SHINGKING: Chienshan (*Ross*, 586!), Jaoling (*Ross*, 383!), between Moukden and Tungcheshien (*James*!); SHENSI: Kusan (*Hugh*!); HUPEH: Patung (*A. Henry*, 4026!); COREA: East Corea (*Perry*!). Mus. Brit.; Herb. Kew.

Japan, Himalayas, and North temperate regions.

Var. **angustifolia**, *Gaud. Agrost. Helvet.* i. p. 214; *Kunth, Enum.* i. p. 353; *Franchet, Pl. David.* i. p. 337; *Stapf, in Hook. f. Fl. Brit. Ind.* vii. p. 340; *Turcz. Fl. Baic.-Dahur.* ii. p. 328.

SHENSI: Paoki, Chifengsan (*Hugh*!). Mus. Brit.

North temperate regions.

9. **Poa prolixior,** *Rendle,* n. sp.

Herba perennis?, glabra; culmi tenuissimi, 27 poll. alti, vix $\frac{1}{3}$ lin. crassi, basi ascendentes et geniculati, 4-nodi; nodum supremum $\frac{1}{4}$ culmi longit. a basi locatum. *Foliorum* vaginæ ut culmi scabridule striatæ, strictæ, quam internodia breviores, inferæ albido-membranaceæ quam suprema breviores; ligula lata, superne fimbriata, ad $1\frac{1}{2}$ lin. longa; laminæ angusto-lineares ad apicem acutum attenuatæ, suprema quam inferiores longior, $3\frac{1}{2}$–$4\frac{1}{3}$ poll. longa, $\frac{1}{2}$ lin. lata, ejus vaginæ vix æquans vel eam paullo excedens. *Panicula* stricta, flexuosa, interdum secunda, ad 3 poll. longa; rami gemini erecti vel suberecti, in parte inferiore (circa $\frac{1}{3}$) nudi, scabriduli ut in ramulis brevibus pedicellisque, in parte superiore sublaxiter spiculiferi; spiculæ lanceolatæ, $1\frac{1}{2}$ lin. longæ, pedicellos excedentes, 2-floræ. *Glumæ* firmæ, steriles lanceolatæ, acutæ, trinerves, cum carina scabridula, et marginibus anguste membranaceis, $1\frac{1}{4}$ lin. longæ; fertiles dum plicatæ oblongæ vel oblongo-lanceolatæ, sub apice (ad $\frac{1}{5}$ longit.) membranaceæ, 5-nerves, nervo marginale ad basin sparse piloso, carina ad medium pilosa, callus sparsius contortuplicato-lanatus; inferior sterilibus subæquans vel paullo longior; palea in carinis supra medium minute ciliolata; antheræ $\frac{1}{2}$ lin. longæ.

HUPEH: Patung, in grass, 6000 ft. (*A. Henry,* 6049!); SZECHUEN: Mt. Omei (*Faber,* 1147!). Herb. Kew.

A distinct species of the *Poa nemoralis* group, characterized by its very slender elongated stem, developed ligule, strict inflorescence, and small few-flowered spikelets.

10. **Poa sphondylodes,** *Trin. in Bunge, Enum. Pl. Chin. Bor.* p. 71; *Steud. Syn. Gram.* p. 256; *Baker & Moore, in Journ. Linn. Soc., Bot.* xvii. (1879) p. 388; *Franchet, Pl. David.* i. p. 338; *Palibin, in Act. Horti Petrop.* xix. (1901) p. 133; *Miq. in Ann. Mus. Bot. Lugd.-Bat.* ii. p. 280; *Franch. et Savat. Enum. Pl. Jap.* ii. p. 175.

Poa linearis, *Trin. l. c.* and its var. subdiantha, *Franchet, in Mém. Soc. Sci. Nat. Cherbourg,* xxiv. (1884) p. 269, may belong here.

Poa strictula, *Steud. l. c.* p. 426.

Poa palustris, *Linn.,* var. strictula, *Hack. in Bull. Herb. Boiss.* vii. (1899) p. 710, et sér. 2, iii. (1903) p. 506.

CHIHLI: Jehol (*David,* in herb. *Hance*, 15612 in part!), Peking (*Bushell*!), mountains near Peking (*Bretschneider*, in herb. *Hance*, 15612 in part!); SHINGKING: Sarhoo (*Ross*, 337!), East of Fooling (*Ross*, 359!), Chienshan (*Ross*, 526!), Liao River, west of Liaoyang (*Ross*, 11!); KIANGSU: Shanghai (*Perry*! *Forbes*, 1073!); HUPEH: Patung (*Wilson*, 1640!); SHENSI: Mt. Laoysan, Tcuizscien (*Hugh*!), Paoki, Chifengsan (*Hugh*!); COREA: East (*Perry*!), Soul (*Sontag*!); COREAN ARCHIPELAGO (*Oldham*, 946!). Mus. Brit.; Herb. Kew.

Japan.

11. **Poa viridula**, *Palibin, in Act. Horti Petrop.* xix. (1901) p. 134.

COREA: Soul, Mt. Yisan (*Sontag*!). Mus. Brit.

1. **Glyceria aquatica**, *Wahlenb. Fl. Goth.* p. 18; *Smith, Engl. Fl.* p. 116; *Franchet, Pl. David.* i. p. 338; *Hack. in Bull. Herb. Boiss.* vii. (1899) p. 711, et sér. 2, iii. (1903) p. 506; *Ledeb. Fl. Ross.* iv. p. 392; *Turcz. Fl. Baic.-Dahur.* ii. p. 334; *Regel, Tent. Fl. Ussur.* p. 168.

CHIHLI: Jehol, banks of streams (*David*, in herb. *Hance*, 3617!); SHINGKING: between Tungcheshien and Mäorshan, Yalu River (*James*!); CHEKIANG: Ningpo Mountains (*Faber*, 1735!). Mus. Brit.; Herb. Kew.

Japan, North and Central Asia; Europe.

2. **Glyceria distans**, *Wahlenb. Fl. Upsal.* p. 36; *Hook. f. Fl. Brit. Ind.* vii. p. 347.

Atropis distans, *Griseb. in Ledeb. Fl. Ross.* iv. p. 388; *Hack. in Bull. Herb. Boiss.* sér. 2, iii. (1903) p. 506; *Kanitz, in Math. u. Naturw. Ber. aus Ungarn,* iii. (1884) p. 9.

CHIHLI: Peking (*David*! *Bretschneider*, 887!); COREA: wet places near Chinampo (*Faurie*, 865, 873, fide *Hackel*). Herb. Kew.

Europe, North and Central Asia (Western Tibet).

The plant from Peking collected by David is probably the one referred by Franchet (Pl. David. i. p. 338) to *Glyceria convoluta*, Fries, which in the 'Flora of British India' is regarded as a variety (var. *convoluta*) of *G. distans*.

3. **Glyceria procumbens,** *Dumort. Obs. Gram. Fl. Belg.* p. 145.

Festuca procumbens, *Kunth, Rév. Gram.* p. 129.

Poa procumbens, *Curt. Fl. Lond.* fasc. vi. p. 11.

KIANGSU: Shanghai (*Maingay*, 579!). Herb. Kew.

Europe; probably an introduction in China.

1. **Festuca gigantea,** *Vill. Hist. Pl. Dauph.* ii. p. 110; *Kunth, Enum. Pl.* i. p. 407; *Hack. in Bull. Herb. Boiss.* sér. 2, iii. (1903) p. 506; *Komarow, in Act. Horti Petrop.* xx. (1901) p. 311; *Ledeb. Fl. Ross.* iv. p. 354; *Maxim. Prim. Fl. Amur.* p. 318; *Stapf, in Hook. f. Fl. Brit. Ind.* vii. p. 353.

SHINGKING: Chienshan (*Ross*, 444!). Herb. Kew.

Japan, North Asia, Temperate Himalaya; Europe.

A depauperate form.

2. **Festuca modesta,** *Steud. Syn. Gram.* p. 316; *Stapf, in Hook. f. Fl. Brit. Ind.* vii. p. 354.

HUPEH: South Patung (*A. Henry*, 5345!), Patung (*Wilson*, 1643!). Mus. Brit.; Herb. Kew.

Himalayas.

Wilson's specimen has a longer ligule than usual in the species, reaching sometimes a quarter of an inch or more in length; but I find considerable variation in this character both in the Indian and Chinese specimens.

3. **Festuca ovina,** *Linn. Sp. Pl.* p. 73; var. **vulgaris,** *Koch, Syn.* ii. p. 812; *Hack. Mon. Festuc. Europ.* p. 86, *et in Bull. Herb. Boiss.* vii. (1899) p. 713, et sér. 2, iii. (1903) p. 506; *Palibin, in Act. Horti Petrop.* xix. (1901) p. 35.

SHENSI: Mt. Miaowansan (*Hugh*!); HUPEH: Hsingshan, 10,000 ft. (*A. Henry*, 6966!); COREA: dry places on Mt. Namsan near Soul (*Faurie*, 879, fide *Hackel*). Mus. Brit.; Herb. Kew.

Europe, North Asia.

4. **Festuca parvigluma,** *Steud. Syn. Gram.* p. 305; *Hack. in Bull. Herb. Boiss.* vii. (1899) p. 713, et sér. 2, iii. (1903) p. 506; *Palibin, in Act. Horti Petrop.* xix. (1901) p. 35.

CHEKIANG: Ningpo Mountains (*Faber*, 300!); HUPEH: Chienshih (*A. Henry*, 5792!); COREA: Port Hamilton (*Wilford*, 701!). Herb. Kew.

Japan.

1. **Bromus asper**, *Murr. Prodr. Stirp. Gotting.* p. 42; *Steud. Syn. Gram.* p. 320; *Stapf, in Hook. f. Fl. Brit. Ind.* vii. p. 358; *Ledeb. Fl. Ross.* iv. p. 356.

Kiangsu: Shanghai (*Maingay*, 708 !); Chekiang: Ningpo Mountains (*Faber*, 1736 !); Hupeh: Ichang (*A. Henry*, 3560 !), Hsingshan, 8000–9000 ft. (*A. Henry*, 6994 !); Hongkong: Putoy Isle, sand of sea-shore (*Faber*, 18 !). Mus. Brit.; Herb. Kew.

Europe, North Africa, West and North Asia, and Hill Country of India.

2. **Bromus japonicus**, *Thunb. Fl. Jap.* p. 51; *Steud. Syn. Gram.* p. 326; *Pilger, in Engl. Bot. Jahrb.* xxix. (1900) p. 226; *Miq. in Ann. Mus. Bot. Lugd.-Bat.* ii. p. 283; *Franch. et Savat. Enum. Pl. Jap.* ii. p. 181; *Hack. in Bull. Herb. Boiss.* vii. (1899) p. 714, et sér. 2, iii. (1903) p. 506; *Palibin, in Act. Horti Petrop.* xix. (1901) p. 135; *Hance, in Journ. Bot.* xvi. (1878) p. 234.

Bromus patulus, *Mert. & Koch, in Röhl. Deutschl. Fl.* i. p. 685; *Stapf, in Hook. f. Fl. Brit. Ind.* vii. p. 361.

Shantung: Chefoo (*Swinhoe*! *Perry*!); Kiangsi: Kiukiang (*Forbes*, 18 !), Shanghai (*Maingay*, 352 ! *Faber*, 289 !), Woosing River, Shanghai (*Perry* !), Nanking and Wan City (*Faber*, 1158 !), Chapu (*Oldham*, 19 !); Hupeh: Ichang (*A. Henry*, 4033, 3523 !), Patung (*A. Henry*, 4732 !), West Patung (*Wilson*, 1649 !); Shensi: Paoki, Chifengsan (*Hugh* !), Kusan (*Hugh* !), Kaolinsien (*Hugh* !), Mt. Laoysan, Tcuizscien (*Hugh* !), Hukiascien (*Hugh* !); Szechuen (*Parker*, in herb. *Hance*, 17893 in part !); Corea: Port Chusan (*Wilford*, 929 !), East Corea (*Perry* !). Mus. Brit.; Herb. Kew.

Japan, Temperate Asia; Europe.

3. **Bromus pauciflorus**, *Hack. in Bull. Herb. Boiss.* vii. (1899) p. 713, et sér. 2, iii. (1903) p. 506.

Festuca pauciflora, *Thunb. Fl. Jap.* p. 52.

Festuca remotiflora, *Steud. Syn. Gram.* p. 315; *Pilger, in Engl. Bot. Jahrb.* xxix. (1900) p. 226.

Schedonorus remotiflorus, *Miq. in Ann. Mus. Bot. Lugd.-Bat.* ii. p. 283; *Franch. et Savat. Enum. Pl. Jap.* ii. p. 181; *Franchet, Pl. David.* i. p. 339, ii. p. 146.

Szechuen: Moupin (*David*, fide *Franchet*).

Japan.

4. **Bromus squarrosus,** *Linn. Sp. Pl.* p. 76; *Steud. Syn. Gram.* p. 325; *Pilger, in Engl. Bot. Jahrb.* xxix. (1900) p. 226; *Ledeb. Fl. Ross.* iv. p. 363.

SZECHUEN: Nanchuan (*Bock*, fide *Pilger*).

West and North Asia; Europe.

5. **Bromus tectorum,** *Linn. Sp. Pl.* p. 77; *Steud. Syn. Gram.* p. 318; *Stapf, in Hook. f. Fl. Brit. Ind.* vii. p. 359.

SZECHUEN: Tachienlu (*Pratt*, 198!). Mus. Brit.; Herb. Kew.

Europe, North Africa, Western and Northern Asia, Himalayas.

1. **Brachypodium silvaticum,** *Beauv. Agrost.* p. 155; *Pilger, in Engl. Bot. Jahrb.* xxix. (1900) p. 226; *Miq. in Ann. Mus. Bot. Lugd.-Bat.* ii. p. 286; *Franch. et Savat. Enum. Pl. Jap.* ii. p. 185; *Hack. in Bull. Herb. Boiss.* vii. (1899) p. 714; *Baker & Moore, in Journ. Linn. Soc., Bot.* xvii. (1879) p. 388; *Hook. f. Fl. Brit. Ind.* vii. p. 363; *Ledeb. Fl. Ross.* iv. p. 346.

SHINGKING: Chienshan (*Ross*, 580!); HUPEH: Fang, 7000 ft. (*A. Henry*, 6745!), Patung (*A. Henry*, 4721!); SZECHUEN: Tongolo (*Soulié*, 246!); YUNNAN: Mengtze, woods at 4600 ft. (*A. Henry*, 11255!). Mus. Brit.; Herb. Kew. — ?

Japan, North Asia, mountains of India; Europe.

Tribe HORDEÆ.

1. **Agropyrum caninum,** *Beauv. Agrost.* p. 146; *Pilger, in Engl. Bot. Jahrb.* xxix. (1900) p. 226; *Hack. in Bull. Herb. Boiss.* vii. (1899) p. 714.

Triticum caninum, *Schreb. Spicil. Fl. Lips.* p. 51; *Steud. Syn. Gram.* p. 344; *Trin. in Bunge, Enum. Pl. Chin. Bor.* p. 72; *Maxim. Prim. Fl. Amur.* p. 478.

CHINA: East Coast (*Home*!); CHIHLI: mountains west of Peking (*Bretschneider*, 856!), Peking (*Bushell*!); KIANGSU: Shanghai (*Perry*!); HUPEH: Patung (*A. Henry*, 4726!), Ichang (*A. Henry*, 197, 798!); SZECHUEN (*A. Henry*, 5873!); COREA: East (*Perry*!); COREAN ARCHIPELAGO: Tsusima Islands (*Wilford*, 779!). Mus. Brit.; Herb. Kew.

Japan, Europe, North America.

2. **Agropyrum ciliare,** *Franchet, Pl. David.* i. p. 341; *Palibin, in Act. Horti Petrop.* xix. (1901) p. 135; *Komarow, ibid.* xx. (1901) p. 315.

Agropyrum semicostatum, *Nees,* var. ciliare, *Hack. in Bull. Herb. Boiss.* sér. 2, iii. (1903) p. 506.

Triticum ciliare, *Trin. in Bunge, Enum. Pl. Chin. Bor.* p. 72; *Franchet, in Mém. Soc. Sci. Nat. Cherbourg,* xxiv. (1884) p. 271; *Maxim. Prim. Fl. Amur.* p. 478.

Brachypodium chinense, *S. Moore, in Journ. Bot.* xiii. (1875) p. 230.

CHIHLI: mountains west of Peking (*Bretschneider,* 835!), hills about Peking (*Williams,* in herb. *Hance,* 13838 in part!), dry hills, Jehol (*David,* in herb. *Hance,* 13838 in part!), Mt. Pohuashan (*Moellendorff,* in herb. *Hance,* 13838 in part!); SHANTUNG: Chefoo (*Perry*!); KIANGSI: Kiukiang (*Shearer*!); HUPEH: Ichang (*A. Henry,* 3486, 201!); SHENSI: Kusan (*Hugh*!); SHINGKING: Moukden to Laioyang (*Ross,* 341!), Chienshan (*Ross,* 598!); COREA: Soul (*Sontag*!), East Corea (*Perry*!). Mus. Brit.; Herb. Kew.

North Asia.

3. **Agropyrum repens,** *Beauv. Agrost.* p. 146; *Hook. f. Fl. Brit. Ind.* vii. p. 370.

Agropyrum pseudo-agropyrum, *Franchet, Pl. David.* i. p. 340; *Hack. in Bull. Herb. Boiss.* sér. 2, iii. (1903) p. 507; *Komarow, in Act. Horti Petrop.* xx. (1901) p. 315.

Triticum pseudo-agropyrum, *Griseb. in Ledeb. Fl. Ross.* iv. p. 343; *Maxim. Prim. Fl. Amur.* p. 318; *Franchet, in Mém. Soc. Sci. Nat. Cherbourg,* xxiv. (1884) p. 271.

Triticum chinense, *Trin. in Bunge, Enum. Pl. Chin. Bor.* p. 72; *Maxim. l. c.* p. 478.

Triticum repens, *Linn. Sp. Pl.* p. 86.

Elymus pseudo-agropyrum, *Trin. in Bull. Soc. Nat. Mosc.* 1838, p. 105 (nomen), *et in Turcz. Fl. Baic.-Dahur.* ii. p. 350.

CHIHLI: Jehol, in dry places (*David,* in herb. *Hance,* 15614 in part!), Peking (*Bretschneider,* in herb. *Hance,* 15614 in part!); KIANGSU: Shanghai (*Forbes*!). Mus. Brit.; Herb. Kew.

North Asia, Himalayas; widely distributed in temperate regions.

4. **Agropyrum semicostatum,** *Nees, ex Steud. Syn. Gram.* p. 346; var. **transiens,** *Hack. in Bull. Herb. Boiss.* sér. 2, iii. (1903) p. 507.

COREA: sand of the river Pyengyang (*Faurie*, 841, fide *Hackel*).

5. **Agropyrum strigosum**, *Franchet, Pl. David.* i. p. 340.

Triticum strigosum, *Less. in Linnæa*, ix. (1834) p. 170; *Maxim. Prim. Fl. Amur.* p. 478.

CHIHLI: Jehol (*David*, 1878, fide *Franchet*).

1. **Lepturus repens**, *R. Br. Prodr.* p. 207; *Steud. Syn. Gram.* p. 357; *Hook. f. Fl. Brit. Ind.* vii. p. 365.

FORMOSA: Takow (*A. Henry*, 756, 1174, 1202!). Mus. Brit.; Herb. Kew.

Ceylon, Malaya, Pacific Islands, Australia, Mascarene Is., South Africa.

1. **Elymus arenarius**, *Linn. Sp. Pl.* p. 83; var. **coreensis**, *Hack. in Bull. Herb. Boiss.* sér. 2, iii. (1903) p. 507.

COREA: Ouensan (*Faurie*, 843, fide *Hackel*).

The species occurs in Europe including Arctic, North Asia and Japan.

2. **Elymus dahuricus**, *Trin. in Bull. Soc. Nat. Mosc.* 1838, p. 105 (nomen), *et Fl. Altaic.* ii. p. 348; *Steud. Syn. Gram.* p. 348; *Franchet, Pl. David.* i. p. 342, et ii. p. 146; *Komarow, in Act. Horti Petrop.* xx. (1901) p. 318; *Pilger, in Engl. Bot. Jahrb.* xxix. (1900) p. 226; *Ledeb. Fl. Ross.* iv. p. 331; *Hack. in Bull. Herb. Boiss.* vii. (1899) p. 715.

CHIHLI: neighbourhood of Peking (*David*, 562! *Bretschneider*, 846!); HUPEH: Patung (*A. Henry*, 4709!); SZECHUEN: Moupin (*David*, fide *Franchet*). Herb. Kew.

Himalayas, Central Asia, North Asia.

Var. **cylindricus**, *Franchet, Pl. David.* i. p. 342.

CHIHLI: neighbourhood of Peking (*David*, fide *Franchet*).

3. **Elymus dasystachys**, *Trin. in Ledeb. Fl. Altaic.* i. p. 120; *Steud. Syn. Gram.* p. 350; *Franchet, Pl. David.* i. p. 341; *Komarow, in Act. Horti Petrop.* xx. (1901) p. 320; *Hook. f. Fl. Brit. Ind.* vii. p. 374; *Ledeb. Fl. Ross.* i. p. 333.

SHENSI: in the mountains (*David*, in herb. *Hance*, 7960!). Mus. Brit.

Central and North Asia, Himalayas.

4. **Elymus excelsus,** *Turcz. in Bull. Soc. Nat. Mosc.* p. 105 (nomen), *et Fl. Altaic.* ii. p. 349; *Steud. Syn. Gram.* p. 348; *Hack. in Bull. Herb. Boiss.* sér. 2, iii. (1903) p. 507; *Komarow, in Act. Horti Petrop.* xx. (1901) p. 319; *Ledeb. Fl. Ross.* iv. p. 331.

COREA: Ouensan (*Faurie*, 844, fide *Hackel*).

North Asia.

5. **Elymus sibiricus,** *Linn. Sp. Pl.* p. 83; *Steud. Syn. Gram.* p. 348; *Franchet, Pl. David.* i. p. 341; *Hack. in Bull. Herb. Boiss.* vii. (1899) p. 715; *Komarow, in Act. Horti Petrop.* xx. (1901) p. 317; *Ledeb. Fl. Altaic.* i. p. 123, *et Fl. Ross.* iv. p. 330; *Regel, Tent. Fl. Ussur.* p. 167; *Maxim. Prim. Fl. Amur.* p. 317; *Hook. f. Fl. Brit. Ind.* vii. p. 373.

SHINGKING: Laoyehling and other hills near Moukden (*James*!); SHENSI: Mt. Miaowansan (*Hugh*!). Mus. Brit.; Herb. Kew.

Himalayas, Central and North Asia; America.

1. **Asprella Duthiei,** *Stapf, in Hook. f. Fl. Brit. Ind.* vii. p. 375, *et in Hook. Icon. Pl.* t. 2525; *Pilger, in Engl. Bot. Jahrb.* xxix. (1900) p. 226.

HUPEH: Chienshih (*A. Henry*, 5918!). Herb. Kew.

Western Himalaya.

Tribe BAMBUSEÆ.

1. **Arundinaria densiflora,** *Rendle*, n. sp.

Frutex; internodia glabra. *Foliorum* vaginæ, in ramis floriferis, glabræ, apice breviter marginatæ et ore fimbriatæ; ligula brevis, truncata; lamina lineari-lanceolata, acuta, 2½–4 poll. longa, ad (vix) ¾ poll. lata, in petiolum brevem attenuata, margine subaspera, venæ secundariæ utrinque 5, interspatiis minute et regulariter tessellatis. *Racemi* parvi, densi, pauci-(circa 5-) spiculiferi, in ramulis florentibus approximati, axis brevis cum bracteis sursum majoribus imbricatis indutus; spiculæ sæpe 5–6-floræ, purpureo-tinctæ, subsessiles. *Glumæ* imbricatæ, rhachillæ articuli crassi clavati puberuli, gl. steriles, solitariæ vel binæ et inæquales, fertilibus similes sed breviores; gl. fertiles late ovatæ, cuspidatæ, dorso vix carinatæ, cum venulis secundariis utrinque 4 prominulis, dorso hirsutulæ, inferior 4½ lin.

longa; palea subæquilonga vel paullo longior, dorso et in carinis binis hirsutula, apice bilobulata; lodiculæ 3, obovatæ, superne rotundatæ et ciliatæ, 1½ lin. longæ; antheræ 3, 2½ lin. longæ; ovarium glabrum, stylus brevis, stigmata 3 plumosa.

KIANGSU: Kiangsu hills (*Faber*, 19!); CHEKIANG: hills near Huchan, Taihoo Lake (*Carles*, 227!). Mus. Brit.; Herb. Kew.

A distinct species characterized by the short crowded groups of spikelets, closely arranged on the slender flowering shoots which are more or less densely associated and overtopped by leafy shoots.

2. **Arundinaria Faberi**, *Rendle*, n. sp.

Frutex bipedalis; internodia in parte superiore florifera glabra, ⅔ ad ⅓ poll. longa, ramuli floriferi fasciculati; vaginæ aphyllæ internodia excedentes, glabræ, margine et apice ut in foliaceis. *Foliorum* vaginæ strictæ, sese involventes, glabræ, margine ciliolatæ, apice breviter marginatæ et cum auriculis fimbriatis instructæ; ligula brevis, truncata; lamina anguste lanceolata, ± acuminata, ad 3 poll. longa, ⅓ poll. lata, in petiolum brevem attenuata, glabra, margine aspera, subter asperula, venæ secundariæ utrinque 3, interspatiis minute et regulariter tessellatis. *Racemi* terminales, lineares, semipedales, rhachis gracilis ultra foliæ ultimæ vaginam longe (circa 4 poll.) exserta, glabra; spiculæ paucæ, multifloræ (sæpe 6–10) ad 2½ poll. longæ, atro-purpureæ, pedicellis tenuibus flexuosis. *Glumæ* steriles valde inæquales, inferior lanceolata, acuta, 1¾ lin. longa, uninervis, et dorso carinata, superior, ovata, trinervis, carinata, abrupte acuta, 3½ lin. longa; rhachillæ articuli clavati, margine et apice ciliolati; glumæ florentes dissitæ, ovatæ, acuminatæ, dorso carinatæ cum venulis secundariis utrinque 3 prominentibus, dorso hirsutulæ, inferior ½ poll. longa; palea brevior, bidentula, in carinis et dorso sub apice hirsutula; lodiculæ ovatæ, obtusæ, venulosæ; stigmata 3 plumosa.

SZECHUEN: above Chingking, Yangtzekiang (*Faber*, 1119!). Herb. Kew.

Approaches the Himalayan species *Arundinaria racemosa*, Munro, but differs in the longer-exserted panicles and the large upper barren glume.

3. **Arundinaria flexuosa,** *Hance, in Journ. Bot.* xiv. (1876) p. 339.

KWANGTUNG: Danes Island, Whampoa (*Nevin*, in herb. *Hance*, 19336!). Mus. Brit.

4. **Arundinaria Hindsii,** *Munro, in Trans. Linn. Soc.* xxvi. (1868) p. 31.

HONGKONG (*Hinds*!). Herb. Kew.

Known only from leaf-specimens.

5. **Arundinaria linearis,** *Hack. in Bull. Herb. Boiss.* vii. (1899) p. 721.

LUCHU ARCHIPELAGO (*Tashiro*, fide *Hackel*).

6. **Arundinaria nitida,** *Mitford, in Gard. Chron.* ser. III. xviii. (1895) p. 186, t. 33, *et Bamboo Garden*, p. 73 (nomen); *Stapf, in Kew Bull.* 1896, p. 20; *Pilger, in Engl. Bot. Jahrb.* xxix. (1900) p. 226.

Arundinaria khasiana, *Bean, in Gard. Chron.* ser. III. xv. (1894) p. 301, non *Munro.*

HUPEH: Fang district, on cliffs, 6000–9500 ft. (*A. Henry*, 6832!), mountains, Chienshin (*Wilson*, 954!), West Hupeh (*Wilson*, 1040 A!); SZECHUEN: North (*Potanin*!), mountains, South Wushan (*Wilson*, 1040!). Mus. Brit.; Herb. Kew.

7. **Arundinaria sinica,** *Hance, in Ann. Sci. Nat.* sér. 4, xviii. (1862) p. 235, *et Journ. Linn. Soc., Bot.* xiii. (1873) p. 137.

Arundinaria longiramea, *Munro, in Trans. Linn. Soc.* xxvi. (1868) p. 19.

Arundinaria Wightii, *Benth. Fl. Hongk.* p. 434.

HONGKONG (*Ford*, in herb. *Forbes*! *Hance*, 1945! *Wright*!), Mount Victoria and Happy Valley Woods (*Lamont*!). Mus. Brit.; Herb. Kew.

8. **Arundinaria sparsiflora,** *Rendle*, n. sp.

Frutex sexpedalis; culmi teretes, leves, in specimine 1½ lin. crassi; rami fasciculati, in ramulis pluribus brevibus foliiferis et floriferis soluti; foliiferi juveniles (qui solum suppetunt) 1½ poll. longi, a vaginis pupurascentibus velati. *Foliorum* vaginæ striatæ cum venulis transversalibus sparsis, ore cum fimbriis paucis, mox deciduis instructæ; ligula brevis, truncata; lamina lanceo-

lata, acuminata, brevissime petiolata, ad 1½ poll. longa, 2½ lin. lata, glabra, venæ secundariæ 4 a venulis transversalibus creberrimis conjunctæ, margine scabridula. *Racemi* laterales breves, 1–1⅓ poll. longi, a bracteis sursum majoribus e basi vaginati; bracteæ 3 inferiores, 2–9 lin. longæ, membranaceæ (infima carinata), 2 sequentes foliaceæ cum lamina ½–1 poll. longa, ceteræ (ad 5) sursum breviores, 2½–6 lin. longæ, membranaceæ et sine lamina, quæque spiculam fovens (spiculæ sæpe 3-floræ, glumæ steriles 2, vel in spiculis superioribus 1, fertilibus similes sed breviores), rhachis glabra, cum glumis fertilibus pluribus (sæpe 6 quarum suprema ± abortiva est) terminata. *Glumæ* fertiles adultæ late lanceolatæ, breviter aristatæ, dorso hirsutulæ, cum venulis secundariis 5 prominulis, 5½–6 lin. longæ, paleæ c. 4½ lin. longæ, binerves, in carinis et dorso hirsutulæ, apice bidentulæ; lodiculæ 3, falcate ovatæ, superne ciliolatæ, vix 1 lin. longæ; antheræ 3, 3 lin. longæ; ovarium glabrum, stylus brevis, stigmata tria plumosa.

HUPEH: Hsingshan, throughout conifer woods on mountains, 8000 to 9500 ft. (*A. Henry*, 6938!). Mus. Brit.; Herb. Kew.

A distinct species belonging to the section *Thamnocalamus*, and suggesting the Japanese *Arundinaria vaginata*, Hack. (in Bull. Herb. Boiss. vii. p. 717), which I have not seen, but differing in the details of arrangement of the inflorescence and other points.

9. **Arundinaria Wilsoni**, *Rendle*, n. sp.

Frutex; internodia teretia, glabra, ad 1⅔ lin. crassa; vaginæ culmi internodia (in parte saltem superiore) excedentes, chartaceæ, glabræ, ramis floriferis arcte circumvolutæ; ligula brevis, truncata. *Foliorum* vaginæ strictæ, arcte convolutæ, glabræ; lamina oblongo-lanceolata, acuminata, basi in petiolum brevem attenuata, ad 5 poll. longa, 11 lin. lata, superne glabra, margine aspera, subter pilosula, venæ secundariæ utrinque 4–6. *Rami floriferi* ad nodos culmi ultimos fastigiati, rarius solitarii; paniculæ parvæ, effusæ, ad 2¾ poll. longæ, et 3 poll. latæ, pedicelli velut rhachi glabri, graciles, flexuosi, sæpius patentes, interdum nutantes; spiculæ purpurascentes, sæpius 5–7-floræ, ad 1 poll. longæ; glumæ steriles distantes, inæquales, ovatæ, obtusæ vel subacutæ, carinatæ, in marginibus præcipue superioribus puberulæ, inferior 5-nervis, 1½ lin. longa, superior

7-nervis, $2\frac{2}{3}$ lin. longa; florentes dissitæ (rhachillæ articuli pilosuli), late ovatæ, obtusæ vel breviter acutæ basi rhachillam amplectantes, super basin carinatæ, 7-nerves, pilosulæ præcipue ad marginem, gl. infima 4 lin. longa, palea brevior ($3\frac{1}{2}$ lin. longa) obtusa, in carinis et ad latera puberula; lodiculæ ovatæ, sub apice fimbriatæ; ovarium glabrum; stylus brevis in stigmata tria plumosa solutus. *Caryopsis* oblonga, brunnea, glabra, $1\frac{2}{3}$ lin. longa, cum basi styli persistente coronata.

HUPEH: Fang, forms scrub on top of highest mountains, 7700 to 9600 ft. (*Wilson*, 1887!). Herb. Kew.

Approaches *Arundinaria elegans*, Kurz, from further India, but differs in the effuse panicle, the markedly unequal barren glumes, and the blunter flowering glumes.

1. **Fargesia spathacea**, *Franchet, in Bull. Soc. Linn. Paris*, 1893, p. 1067; *Pilger, in Engl. Bot. Jahrb.* xxix. (1900) p. 226.

SZECHUEN: mountains in Tchenkeoutin district (*Farges*, fide *Franchet*).

1. **Phyllostachys bambusoides**, *Sieb. & Zucc. in Abh. Akad. Wiss. Münch., Math.-phys. Class.* iii. (1843) p. 746, t. 5. fig. 3; *Munro, in Trans. Linn. Soc.* xxvi. (1870) p. 36; *Pilger, in Engl. Bot. Jahrb.* xxix. (1900) p. 227; *Miq. in Ann. Mus. Bot. Lugd.-Bat.* ii. p. 284; *Franch. et Savat. Enum. Pl. Jap.* ii. pp. 182, 605; *Hack. in Bull. Herb. Boiss.* vii. (1899) p. 718; *Gamble, Bamb. Brit. Ind.* p. 27, *et in Hook. f. Fl. Brit. Ind.* vii. p. 386.

CHINA: without locality (*De Montigny*!); FOKIEN: Amoy (*De Grijs*, in herb. *Hance*, 2073!); HUPEH: Nanto (*A. Henry*, 3867, 4405, 4420, 7900! *Wilson*, 230!). Mus. Brit.; Herb. Kew.

Japan, Assam.

2. **Phyllostachys congesta**, *Rendle*, n. sp.

Suffrutex vel *frutex*; internodia semiteretia, glabra. *Foliorum* vaginæ (in ramulis floriferis) glabræ, striatulæ, ad sesquipollicares, ore fimbriis ad 3 lin. longis instructæ; ligula brevis, truncata, ciliolata; lamina lanceolata, acuta, ad $3\frac{1}{4}$ poll. longa et $\frac{2}{3}$ poll. lata, basi rotundata, breviter petiolata, margine scabridula, venæ secundariæ utrinque 4–6, subter vix prominulæ, interspatiis minute tessellatis. *Paniculæ* multispiculiferæ, congestæ, capituliformes, circa ¾ poll. longæ, ramulos foliiferos terminantes et a vaginis spathiformibus foliorum ultimorum (qui transitum ad bracteas monstrant) primo obsessæ; bracteæ primariæ subfoliaceæ, superiores breviores, anguste lanceolatæ, acutæ; spiculæ 3–5-floræ (flos suprema imperfecta), rhachilla glabra. *Gluma* sterilis bracteis superioribus subconformis, angusta, e basi ad apicem elongatum subpungentem attenuata, glumam fertilem infimam subæquans, superne carinulata et sparsius hirsutula; glumæ fertiles oblongæ apice longius pungentes, dorso rotundato hirsutæ, multinerves, infima sæpius semipollicaris; palea paullo brevior (e. g. 5 lin. longa), cum carinis prominulis, dorso superne hirsuta, apice bidentula; lodiculæ inæquales, 2 majores obovatæ, apice ciliatæ, vix 1½ lin. longæ, tertia conformis sed duplo minor; stamina 3; ovarium pedicellatum, stylus diu persistens superne in stigmata 3 plumosa divisus.

HUPEH: Patung (*A. Henry*, 4828! "used for paper-making"), Changyang (*A. Henry*, 6238!), Ichang (*A. Henry*, 1698!), West Hupeh (*Wilson*, 230 A!). Herb. Kew.

The species is characterized by the short dense capitate panicles terminating the leafy shoots. No. 1698 is described by Dr. Henry as a "very small bamboo in ditch"; No. 6238 as 10 ft. high.

3. **Phyllostachys Faberi**, *Rendle*, n. sp.

Frutex; internodia glabra. *Foliorum* vaginæ glabræ, striatulæ, ore longe fimbriatæ, fimbriæ ad 5 lin. longæ; ligula truncata, 1½ lin. longa; lamina lineari-lanceolata, acuta vel acuminata, in ramulis sterilibus ad 6 poll. longa et 8 lin. lata, in petiolum bilineum (vel breviorem) attenuata, margine altero scabridula, altero levis, venæ secundariæ utrinque 4–6, interspatiis minute tessellatis. *Rami florentes* elongati, aphylli, internodia unilateraliter complanata, levia; ramuli primarii solitarii subpedales, ad originem et ad nodos quosque distantes ramulos secundarios solitarios ad 4 poll. longos gerentes, internodia ramulique sursum deminuti; ramuli ultimi tenues spiculiferi; bracteæ magnæ, membranaceæ, spathiformes, ad 1⅓ poll. longæ; spiculæ trifloræ (flos supremus autem imperfectus) distantes. *Gluma* sterilis vaginæformis, sæpe cum ligula obsoleta terminata, 1 poll. vel longior; fertilis inferior gluma sterili ab internodio bilineo clavato puberulo sejuncta, lineari-lanceolata, acuta, multinervis, dorso rotundata et scabridula, pollicaris vel paullo longior; palea quam gluma paullo vel vix brevior, angusta, multinervis, dorso in parte superiore præcipue in carinis geminis approximatis scabridula, apice bidentula; lodiculæ lineari-lanceolatæ, acutæ, $2\frac{2}{3}$ lin. longæ; ovarium pedicellatum, napiforme; stylus longus diu persistens.

CHEKIANG: Ningpo Mountains (*Faber*!). Herb. Kew.

Resembles *Phyllostachys Stauntonii*, Munro, in the prominent ligule and long fimbriæ of the leaf-sheath, but differs in the much coarser-looking inflorescence.

4. **Phyllostachys flexuosa**, *A. & C. Rivière, in Bull. Soc. Acclimat.* sér. 3, v. (1878) p. 758.

Stated by the authors to have been received by the Paris Société d'Acclimatation from the cold parts of China. It is apparently near *Phyllostachys Nevinii*, Hance.

I have seen only leaf-specimens from plants grown in Kew Gardens.

5. **Phyllostachys Henryi**, *Rendle*, n. sp.

Frutex 20-pedalis alta; rami quadrangulares, glabri. *Foliorum* vaginæ in ramulis floriferis glabræ, leves, stramineæ, $\frac{3}{4}$ poll. longæ, ore fimbriatæ (fimbriæ $1\frac{1}{2}$ lin. longæ); ligula brevis, truncata; lamina anguste lanceolata, acuta, $1\frac{1}{2}$–$2\frac{1}{2}$ poll. longa, $\frac{1}{4}$ ad vix $\frac{1}{2}$ poll. lata, in petiolum brevem attenuata, margine scabridula, venæ secundariæ utrinque 4, interspatiis minute tessellatis. *Paniculæ* densæ, pollicares, ramulos ultimos terminantes et a foliis supremis geminis approximatis velut cum spatha vaginatæ; rhachis pilosula, brevis, ramulosa, bracteæ inferiores subfoliaceæ cum lamina breve acuta instructæ, superiores membranaceæ, lanceolatæ, acutæ; spiculæ circa 5, subsessiles, bifloræ, flos superior imperfecta. *Gluma* sterilis inter bracteam præcedentem et glumam fertilem forma intermedia, lanceolata, acuta, multinervis, superne sparsius hirsutula; fertilis 7 lin. longa, lanceolata, apice pungens, dorso rotundato hirsutula, cum venulis parallelis utrinque 6 haud prominulis; palea paullo brevior (6 lin. longa), multinervis, carinis approximatis, dorso minute hirsutula, apice bidentula; lodiculæ 3, subæquales, lanceolatæ, acutæ, $1\frac{3}{4}$ lin. longæ; ovarium pedicellatum; stylus in stigmata 3 plumosa superne divisus.

HUPEH: Nanto (*A. Henry*, 6338!). Mus. Brit.; Herb. Kew.

Near *Phyllostachys Stauntoni*, Munro, from which it differs in the shorter ligule and shorter fimbriæ at the mouth of the sheath, and in the solitary dense panicles situated at the end of short leafy branches.

6. **Phyllostachys heteroclada**, *Oliver, in Hook. Icon. Pl.* t. 2288; *Pilger, in Engl. Bot. Jahrb.* xxix. (1900) p. 227.

KIANGSI: Kiukiang (*Shearer* !), native name Man-tsze; HUPEH: West (*Wilson*, 332, 332 A!), Nanto and mountains to northward (*A. Henry*, 1932, 3828!); SZECHUEN (*A. Henry*, 8833!), West Szechuen and Tibetan frontier chiefly near Tachienlu, 9000–13,500 ft. (*Pratt*, 384!). Herb. Kew.

7. **Phyllostachys montana**, *Rendle*, n. sp.

Frutex. Folia papyracea; vaginæ subcompressæ, glabræ, densiter striatæ, apice pulvinatæ; ligula ½ lin. longa, truncata, longe fimbriata; lamina lineari-oblonga ad apicem acuminatum attenuata, 8 poll. longa, vix 1 poll. lata, margine utrinque scabridula, subter sparse pilosula, venæ secundariæ utrinque 6–7, venulæ inconspicuæ infrequenter et irregulariter transverse junctæ; petiolus brevissimus. *Inflorescentia* aphylla, ramosa, effusa; paniculæ in ramulis ultimis brevibus densius aggregatæ, iis *P. Veitchianæ* similes sed interdum minus congestæ; bracteæ quoque et glumæ velut in *P. Veitchiana*.

SZECHUEN: Mount Omei, 3000 ft. (*Faber*, 1116!). Herb. Kew.

Closely resembles *Phyllostachys Veitchiana*, mihi, in the character of the panicles, but the inflorescence is more diffuse. It also differs in the texture of the leaves which are thinner and papery, the long-fimbriated ligule, and the very short petiole. I am unable to describe the florets, as they have been eaten by a grub.

8. **Phyllostachys nana**, *Rendle*, n. sp.

Suffrutex pedalis; rhizoma 2–3 lin. crassum; culmus basi subteres ad ¼ poll. crassus, nodis basalibus subapproximatis ramosus; rami diffuse ramulosi; internodia unilateraliter complanata, brunneo-maculata. *Foliorum* vaginæ pollicares superne ampliatæ

et sparse puberulæ, margine ciliolatæ, ore longe fimbriatæ (fimbriæ $\frac{1}{4}$ poll. longæ); ligula brevis, truncata, ciliolata; lamina late linearis vel lineari-lanceolata, ad apicem breviter acuminatum attenuata, ad 5 poll. longa et 7 lin. lata basi in petiolum brevem (ad 3 lin. longum) subito attenuata, subter pilosula, margine utroque scabridula, venæ secundariæ utrinque 5, interspatiis minute tessellatis. *Paniculæ* in ramulis primo foliiferis laterales vel ramulos breves terminantes, ad sesquipollicares, axis basi cum bracteis ovatis, glabris, subcoriaceis, brevibus sed sursum majoribus, vaginatus; bracteæ superiores ramulos subtendentes, membranaceæ, longiores (ad $\frac{3}{4}$ poll. longæ), multinerves, hirsutulæ, cum lamina rudimentaria instructæ; ramuli breves congesti a spiculis 2–3-floris terminati. *Gluma* sterilis bracteæ supremæ similis sed brevior (5 lin. longa), apice subpungens; glumæ fertiles oblongæ, superne angustatæ, apice pungentes, dorso rotundatæ, hirsutulæ, imperfecte 9-nerves, infima $\frac{2}{3}$ poll. longa, suprema florem imperfectum fovens; rhachilla puberula; palea quam gluma paullo brevior, bidentula, dorso hirsutula, plurinervis, carinis 2 vix prominulis; lodiculæ 3 lanceolatæ vel ovatæ, obtusæ, superne ciliolatæ, $1\frac{3}{4}$ lin. longæ; stamina, ovarium et stylus generis.

HUPEH: Ichang (*A. Henry*, 3278!). Herb. Kew.

The panicle and spikelets resemble those of *Phyllostachys nigra*, Munro, but the habit is very different.

9. **Phyllostachys Nevinii**, *Hance, in Journ. Bot.* xiv. (1876) p. 295.

KWANGTUNG: Danes Island, Whampoa (*Nevin*, in herb. *Hance*, 19307!). Mus. Brit.; Herb. Kew.

Var. **hupehensis**, *Rendle*, n. var. A typo recedit fimbriis ad vaginarum ora longioribus (sæpe $2\frac{1}{2}$ lin. longis) et spiculis densius hirsutulis.

HUPEH: Ichang (*A. Henry*, 3318!). Mus. Brit.; Herb. Kew.

10. **Phyllostachys nidularia**, *Munro, in Gard. Chron.* (1876) ii. pp. 773, 774.

Phyllostachys nigra, *Pilger, in Engl. Bot. Jahrb.* xxix. (1900) p. 227, non *Munro.*

CHEKIANG: Taiboo Lake (*Forbes*!); KIANGSI: Kiukiang

(*Shearer*! *Maries*!); HUPEH: Ichang (*A. Henry*, 450, 1322, 7868, 7871!), Nanto (*Wilson*, 10! *A. Henry*, 3823!), Changyang (*A. Henry*, 3671, 7809!); SZECHUEN: Chungking, Yangtzekiang (*Faber*, 1117!); KWANGTUNG: Macao (*Callèry*, 767!). Mus. Brit.; Herb. Kew.

Japan.

11. **Phyllostachys nigra**, *Munro, in Trans. Linn. Soc.* xxvi. (1868) p. 38; *A. & C. Rivière, in Bull. Soc. Acclimat.* sér. 3, v. (1878) p. 709.

Var. **Henonis**, *Stapf, in Herb. Kew.*

Phyllostachys Henonis, *Mitford, Bamboo Garden*, p. 149; *Stapf, in Hook. Icon. Pl.* t. 2614; *Pilger, in Engl. Bot. Jahrb.* xxix. (1900) p. 227.

SZECHUEN: Nanchuan, planted? (*Bock von Rosthorn*, 1207, fide *Pilger*).

Japan.

12. **Phyllostachys quadrangularis**, *Rendle.*

Bambusa quadrangularis, *Fenzi, in Bull. Soc. Tosc. Ort.* v. (1880) p. 401.

KIANGSU: Shanghai (*Macgowan*!); FOKIEN: Wuiking (*Bourne*!). Herb. Kew.

Japan.

The two plants cited are leaf-specimens which are thus referred in Herb. Kew.

13. **Phyllostachys Stauntoni**, *Munro, in Trans. Linn. Soc.* xxvi. (1868) p. 37; *Franchet, in Mém. Soc. Sci. Nat. Cherbourg*, xxiv. (1884) p. 270.

CHIHLI: Peking, cultivated (*Skatschkow*!); KIANGSU: Kianang (*Staunton*!). Mus. Brit.; Herb. Kew.

14. **Phyllostachys Veitchiana**, *Rendle*, n. sp.

Frutex ramis semiteretibus. *Folia* in ramulis floriferis paniculas superantibus posita; vaginæ sursum ampliatæ, pollicares, glabræ, ore fimbriatæ, fimbriæ $\frac{1}{4}$ poll. longæ; ligula brevissima, truncata; lamina lineari-oblonga ad oblongo-lanceolata, superne in apicem acuminatum attenuata, ad $3\frac{1}{2}$ poll. longa et vix $\frac{2}{3}$ lin. lata, glabra, basi in petiolum vix $\frac{1}{4}$ poll. longum subito attenuata, margine unico tantum scabridula, venæ secundariæ utrinque 5,

interspatiis subtiliter tessellatis. *Rami* florentes ad nodos distantes gemini vel terni fasciculati, tenues ($\frac{1}{2}$ lin. crassit. vix excedentes) super basin iterum iterumque ramulosi, ramuli ascendo-patentes, cum internodiis brevibus, paniculas subsessiles laterales numerosas gerentes. *Paniculæ* multispiculiferæ, congestæ, $1\frac{1}{2}$ poll. longæ; axis basi cum bracteis sursum majoribus vaginatus; bracteæ coriaceæ, infimæ ovatæ, tum ovato-oblongæ et breviter mucronatæ, margine ciliolatæ, superiores quæ ramulos subtendunt membranaceæ, lineari-oblongæ, quam inferiores multo longiores, subpollicares, margine densius, dorso sparse hirsutulæ, multinerves, cum ligula brevissima et lamina parva triangulari instructæ; spiculæ 3-floræ. *Glumæ* steriles 1 vel 2, inferior bracteis superioribus similis sed paullo brevior, superior inter inferiorem et glumam florentem forma intermedia; glumæ florentes oblongo-lanceolatæ, apice pungentes, dorso rotundatæ et densius hirsutæ, infima $\frac{2}{3}$ poll. longa; rhachillæ articuli clavati, glabri; palea quam gluma brevior (infima semipollicaris) bidentula, hirsuta præcipue in carinis; lodiculæ 3, ovales vel subobovatæ, $1\frac{1}{2}$ lin. longæ (una autem paullo minor); ovarium et stylus generis.

HUPEH: West (*Wilson*, 10 A!). Herb. Kew.

Near *Phyllostachys nigra*, Munro, but distinguished by the texture of the leaf, which is tougher and has a more rounded base passing abruptly into the petiole; also by the denser panicles.

15. **Phyllostachys viridi-glaucescens,** *A. & C. Rivière, in Bull. Soc. Acclimat.* sér. 3, v. (1878) p. 391.

"Without doubt a native of the north of China" (*A. & C. Rivière*, loc. cit.).

I have seen no specimen from China; the plant is grown in Kew Gardens, and there are leaf-specimens in the Herbarium.

[**Bambusa agrestis,** *Poir. Encycl.* viii. p. 704; *Munro, in Trans. Linn. Soc.* xxvi. (1868) p. 117.

Arundo agrestis, *Lour. Fl. Cochinch.* p. 57.

CHINA? (ex *Loureiro*).

This is insufficiently described; its identity and its occurrence in China are both doubtful.]

1. **Bambusa angulata,** *Munro, in Trans. Linn. Soc.* xxvi. (1868) p. 94; *A. Henry, in Trans. Asiat. Soc. Japan*, xxiv. *Suppl.* (1896) p. 109; *Hack. in Bull. Herb. Boiss.* vii. (1899) p. 725.

FORMOSA (*Oldham*, 650!). Mus. Brit.; Herb. Kew.

2. **Bambusa arundinacea,** *Willd. Sp. Pl.* ii. p. 245; *Munro, in Trans. Linn. Soc.* xxvi. (1868) p. 103; *Debeaux, Fl. Shanghai*, p. 123; *Gamble, Bamb. Brit. Ind.* p. 51, *et in Hook. f. Fl. Brit. Ind.* vii. p. 395.

Bambusa Arundo, *Klein, ex Nees, in Linnæa*, ix. (1835) p. 471; *Benth. Fl. Hongk.* p. 434.

Arundo Bambos, *Linn. Sp. Pl.* p. 81; *Osbeck, Voyage, ed. Forster*, ii. p. 343.

Apparently naturalized in many parts of China.

India and Ceylon.

3. **Bambusa Beecheyana,** *Munro, in Trans. Linn. Soc.* xxvi. (1868) p. 108.

Bambusa verticillata, *Hook. & Arn. Bot. Beechey's Voy.* p. 254, non *Willd.*

CHINA: without locality (*Staunton*! *Beechey*!); KWANGTUNG: Canton (*Hance*, 1050 in part!), Ookaisa woods (*Tate*!). Mus. Brit.; Herb. Kew.

4. **Bambusa breviflora,** *Munro, in Trans. Linn. Soc.* xxvi. (1868) p. 96; *A. Henry, in Trans. Asiat. Soc. Japan*, xxiv. *Suppl.* (1896) p. 109.

FORMOSA: Tamsui (*Oldham*, 651!). Mus. Brit.; Herb. Kew.

5. **Bambusa Cantori,** *Munro, in Trans. Linn. Soc.* xxvi. (1868) p. 111.

HONGKONG: Lantao (*Cantor*!). Herb. Kew.

Leaf-specimens only.

6. **Bambusa flexuosa,** *Munro, in Trans. Linn. Soc.* xxvi. (1868) p. 101; *Hance, in Journ. Linn. Soc., Bot.* xiii. (1873) p. 137.

KWANGTUNG (*Staunton*!), near Canton (*Hance*, 10000!); HAINAN (*A. Henry*, 7996!). Mus. Brit.; Herb. Kew.

7. **Bambusa nana,** *Roxb. Hort. Bengal.* p. 25, *et Fl. Ind.* (*ed. Carey*) ii. p. 199; *Munro, in Trans. Linn. Soc.* xxvi. (1868) p. 89;

Hack. in Bull. Herb. Boiss. vii. (1899) p. 720; *Hook. f. Fl. Brit. Ind.* vii. p. 390.

Bambusa floribunda, *Zoll. et Morr. ex Steud. Syn. Gram.* p. 330; *Miq. in Ann. Mus. Bot. Lugd.-Bat.* ii. p. 285; *Franch. et Savat. Enum. Pl. Jap.* ii. p. 183.

Japan.

"Keufa, of the Chinese; a native of their country and now plentiful in the Botanic Garden at Calcutta."—*Roxb. Fl. Ind.* (*ed. Carey*) ii. p. 199.

I have seen no specimen from China.

8. **Bambusa Oldhami,** *Munro, in Trans. Linn. Soc.* xxvi. (1868) p. 109; *A. Henry, in Trans. Asiat. Soc. Japan,* xxiv. *Suppl.* (1896) p. 109; *Hack. in Bull. Herb. Boiss.* vii. (1899) p. 725; *Stapf, in Hook. Ic. Pl.* 2773.

FORMOSA: Tamsui (*Oldham*, 648 !), Takow (*A. Henry*, 1955 !), South Formosa (*Maries* !). Mus. Brit.; Herb. Kew.

9. **Bambusa stenostachya,** *Hack. in Bull. Herb. Boiss.* vii. (1899) p. 725.

FORMOSA: Shinchiku (*Makino*, fide *Hackel*).

10. **Bambusa Teba,** *Miq. Fl. Ind. Bat.* iii. p. 418; *Munro, in Trans. Linn. Soc.* xxvi. (1868) p. 122.

Arundarbor spinosa, *Rumph. Hort. Amboin.* iv. p. 14, t. 3.

SOUTH CHINA (fide *Rumphius*).

Malaya.

I have not seen this. It is a doubtful species described from leaf-specimens only.

11. **Bambusa tessellata,** *Munro, in Trans. Linn. Soc.* xxvi. (1868) p. 110.

Bambusa reticulata, var. macrophylla, *Rupr. ex Munro, l. c.* p. 111.

CHINA: without locality or collector's name! Mus. Brit.; Herb. Kew.

Described from leaf-specimens only.

I do not find the varietal name which Munro quotes as of Ruprecht (Bambuseæ, p. 148), but Ruprecht's description of the large leaves which he correlates with his *Bambusa reticulata* agrees exactly with the leaves on which Munro based *B. tessellata.*

12. **Bambusa tuldoides,** *Munro, in Trans. Linn. Soc.* xxvi. (1868) p. 93; *Hance, in Journ. Linn. Soc., Bot.* xiii. (1873) p. 137; *A. Henry, in Trans. Asiat. Soc. Japan,* xxiv. *Suppl.* (1896) p. 109.

Bambusa Tulda, *Benth. Fl. Hongk.* p. 434, non *Roxb.*

FORMOSA: Tamsui (*Oldham,* 652!, a poor specimen which has been thus determined by Munro), South Cape (*Schmürer,* in coll. *A. Henry,* 686!); KWANGTUNG: Canton (*Millett!*); HONGKONG (*Hance,* 3657, 7486!), Robinson Road, Victoria (*Lamont!*). Mus. Brit.; Herb. Kew.

13. **Bambusa vulgaris,** *Schrad. in Wendl. Collect. Pl.* ii. p. 26, t. 47; var. **striata,** *Gamble, in Ann. Bot. Gard. Calc.* vii. p. 44.

Bambusa striata, *Lodd. ex Lindl. Penny Cyclop.* iii. (1835) p. 357; *Munro, in Trans. Linn. Soc.* xxvi. (1868) p. 121; *Hook. f. in Bot. Mag.* t. 6079.

I have seen no specimen. Gamble says (*l. c.*):—"It appears to come from China and Japan and is probably the result of cultivation."

1. **Dendrocalamus affinis,** *Rendle,* n. sp.

Frutex elata cujus nihil nisi inflorescentiæ pars exstat. *Inflorescentiæ* axis teres, glaber; rami ad nodos distantes unilateraliter fasciculati, terni, sæpissime ad nodum basale, interdum quoque ad nodum secundum, ramosi, flagelliformes, penduli, subtiliter scabriduli, specimine ad 21 poll. longi; spiculæ ut in *D. flagellifero* paucæ ad nodos subdistantes subverticillatæ (glomerulæ rarius plus quam ½ poll. latæ), ovatæ, ad 5 lin. longæ, fusco-brunneæ, 4-floræ. *Glumæ* coriaceæ, steriles 4, parvæ, sursum majores, 1 ad 2 lin. longæ, ovatæ, obtusæ, multinerves, glabræ, margine autem ciliolatæ; glumæ florentes orbiculari-ovatæ, mucronulatæ, multinerves, ut in sterilibus ciliolatæ, infima 2½ lin. longa; palea compressa, oblonga, quam gluma brevior (infima 1¾ lin. longa), ad carinas superne ciliolatas implicata, dorso inconspicue binervis, apice obtuse retusa et ciliolata; lodiculæ 3, subæquales, obtuse ovatæ, apice ciliatæ, ½ lin. longæ; stamina 3; ovarium breviter pedicellatum, albo-pilosum; stylus mox in stigmata tria plumosa solutus.

SZECHUEN: Mount Omei (*Faber,* 1118!). Herb. Kew.

Evidently near the Burmese *Dendrocalamus Brandisii,* Kurz, and the South Indian and Malayan *D. flagellifer*, Munro, especially the latter, from which it differs in the dull polished brown colour of the spikelets, which are also slightly larger, and in the broader lodicules.

2. **Dendrocalamus latiflorus**, *Munro, in Trans. Linn. Soc.* xxvi. (1868) p. 152, t. vi; *Hance, in Journ. Linn. Soc., Bot.* xiii. (1873) p. 137; *Gamble, in Ann. Bot. Gard. Calc.* vii. p. 131, *et in Hook. f. Fl. Brit. Ind.* vii. p. 407; *A. Henry, in Trans. Asiat. Soc. Japan*, xxiv. *Suppl.* (1896) p. 109.

Bambusa verticillata, *Benth. Fl. Hongk.* p. 434, non *Willd.*

FORMOSA (*Maries*! *Oldham*, 649), Takow (*A. Henry*, 1803, 1955!), Bankinsing (*A. Henry*, 1760!); HONGKONG (*Harland*, 740 in herb. *Hance*, 1050 in part!), Barracks (*Urquhart*!). Mus. Brit.; Herb. Kew.

Burma.

? **Pseudostachyum polymorphum**, *Munro, in Trans. Linn. Soc.* xxvi. (1868) p. 142, t. 4; *Gamble, in Ann. Bot. Gard. Calc.* vii. p. 96, t. 85, *et in Hook. f. Fl. Brit. Ind.* vii. p. 409.

HUPEH: Nanto and mountains to northward (*A. Henry*, 3857!). Herb. Kew.

The specimen, which bears no flowers, may belong to this species.

1. **Schizostachyum chinense**, *Rendle*, n. sp.

Frutex 10–15-pedalis; internodia glabra teretia. *Foliorum* vaginæ glabræ, ore in specimine non fimbriatæ; ligula brevis truncata, ½ lin. longa; lamina lanceolata, acuminata, ad 8 poll. longa, vix 1½ lin. lata, glabra, margine minute scabridula, venæ secundariæ utrinque circa 7 cum nervulis transversis tenuissimis sparsis. *Paniculæ* terminales, aphyllæ, tenues, 14–16 poll. longæ, rhachis tenuis; rami distantes ascendentes, basi cum bractea amplexicauli membranacea lanceolata acuminata vaginati, inferiores ad 3½ poll. iongi, sursum deminuentes; ramuli (in ramis longioribus distantes) similiter vaginati, basi bracteati, bractea infima bicarinata, carinis et apice pilosa; bracteæ superiores dorso rotundatæ spiculæ circumvolutæ; spiculæ ramulos terminantes, unifloræ; *glumæ* steriles binæ florenti similes sed breviores, gl. fertilis ovata, breviter mucronata, glabra, multinervis, palea glumæ subsimilis, sed paullo longior, magis hyalina et apice obtusiuscula; lodiculæ 3 subæquales, ovatæ vel lanceolatæ, glabræ, 1 lin. paullo excedentes; antheræ 6, inappendiculatæ, 5 lin. longæ; stylus generis.

YUNNAN: Mengtze, S.E. mountains, forests on cliffs 8000 ft. high (*A. Henry*, 10420!). Herb. Kew. — ?

Distinguished from the other species of the genus by its long slender panicle, with a few spikelets clustered on the short ultimate branchlets.

2. **Schizostachyum dumetorum**, *Munro, in Seem. Bot. Voy. 'Herald,'* p. 424, *et in Trans. Linn. Soc.* xxvi. (1868) p. 136; *Benth. Fl. Hongk.* p. 435.

Bambusa dumetorum, *Hance, in Walp. Ann.* iii. p. 781.

CHINA: without locality (*Fortune*, 164!); HONGKONG (*Hance*, 597! *Seemann*!), roadside, Happy Valley (*Hance*, in herb. *Lamont*!), ravine on Mount Davis (*Wilford*, 255!). Mus. Brit.; Herb. Kew.

List of the Genera and Species discovered in China since the publication of the various parts of the "Enumeration," from 1886 to March 1904, alphabetically arranged.

This List, compiled by Miss M. Smith, is not offered as an exhaustive one, but as containing references to new species described in publications received at Kew during the period named, with the addition of a number of previously described, mainly Indian, species of later discovery in China.

Finet and Gagnopain's "Contributions à la Flore de l'Asie Orientale d'après l'Herbier du Muséum de Paris," the beginning of which has appeared in the *Bulletin de la Société Botanique de France*, are of the nature of a detailed enumeration of the plants of China and Japan and the adjoining countries, as represented in the Paris herbarium, and have not been drawn upon. Only the new species have been extracted from Gilg and Loesener's "Beiträge zu einer Flora von Kiautschou und einiger angrenzenden Gebiete," in Engler's *Botanische Jahrbücher*, xxxiv. (1904), *Beibl.* n. 75, pp. 1–76.

W. Botting Hemsley.

- **Abelia adenotricha**, Hance, in Journ. of Bot. ix. (1871) 132.
  - **angustifolia**, Bur. & Franch. in Journ. de Bot. v. (1891) 47.
- **Abutilon polyandrum**, Schlect. ex Franch. Pl. Delav. (1890) 107.
  - **sinense**, Oliver, in Hook. Ic. Pl. xviii. (1888) t. 1750.
- **Acacia Delavayi**, Franch. Pl. Delav. (1890) 194.
  - **pennata**, Willd. ex Franch. *l. c.* 193.
  - **yunnanensis**, Franch. *l. c.* 193.
- **Acalypha Giraldii**, Pax, in Engl. Jahrb. xxix. (1900) 429.
- **Acanthopanax evodiæfolius**, Franch. in Journ. de Bot. x. (1896) 306.
  - **Henryi**, Harms, in Engl. & Prantl, Pflanzenf. iii. 8. p. 50.
  - **leucorrhizus**, Harms, *l. c.*
  - **senticosus**, Harms, *l. c.*
  - **setchuenensis**, Harms, in Engl. Jahrb. xxix. (1900) 488.
  - **setulosus**, Franch. Pl. David. in Nouv. Arch. Mus. Hist. Nat. Par. sér. 2, viii. (1885) 249.
- **Acer betulifolium**, Maxim. in Act. Hort. Petrop. xi. (1889) 108.
  - **caudatum**, Wall. ex Franch. in Bull. Soc. Bot. Fr. xxxiii. (1886) 464.

- **Acer cordatum**, Pax, in Hook. Ic. Pl. xix. (1889) sub t. 1897.
  - **Davidi**, Franch. Pl. David. in Nouv. Arch. Mus. Hist. Nat. Par. sér. 2, viii. (1885) 212.
  - **erianthum**, Schwerin, in Engl. Pflanzenreich, Acer. 22.
  - **erosum**, Pax, in Hook. Ic. Pl. xix. (1889) sub t. 1897.
  - **Francheti**, Pax, *l. c.*
  - **Giraldii**, Pax, in Engl. Pflanzenreich, Acer. 79.
  - **Grosseri**, Pax, *l. c.* 80.
  - **Henryi**, Pax, in Hook. Ic. Pl. xix. (1889) t. 1896.
  - **lævigatum**, Wall. ex Engl. Jahrb. xxix. (1900) 449.
  - **lanceolatum**, Molliard, in Bull. Soc. Bot. Fr. l. (1903) 134.
  - **laxiflorum**, Pax, in Engl. Pflanzenreich, Acer. 36.
  - **Lobelii**, Ten., var.; Pax, in Hook. Ic. Pl. xix. sub t. 1897.
  - **Maximowiczii**, Pax, *l. c.* sub t. 1897.
  - **multiserratum**, Maxim. in Act. Hort. Petrop. xi. (1889) 107.
  - **nikoense**, Maxim., var.; Franch. in Journ. de Bot. viii. (1894) 294.
  - **Oliverianum**, Pax, in Hook. Ic. Pl. xix. (1889) sub t. 1897.
  - **Paxii**, Franch. in Bull. Soc. Bot. Fr. xxxiii. (1886) 464.
  - **robustum**, Pax, in Engl. Pflanzenreich, Acer. 79.
  - **Schœnermarkiæ**, Pax, *l. c.* 71.
  - **sinense**, Pax, in Hook. Ic. Pl. xix. (1889) sub t. 1897.
  - **sutchuenense**, Franch. in Journ. de Bot. viii. (1894) 294.
  - **tenellum**, Pax, in Hook. Ic. Pl. xix. (1889) t. 1897.
  - **tetramerum**, Pax, *l. c.* sub t. 1897.
  - **triflorum**, Komarov, in Act. Hort. Petrop. xviii. (1901) 430.
  - **urophyllum**, Maxim. *l. c.* xi. (1889) 105.
  - **Veitchii**, Hort.; Mitth. Deutsch. Dendrol. Ges. 1894, No. 3, 51.
- **Aceriphyllum Rossii**, Engl. & Prantl, Pflanzenf. iii. 2 A, p. 52.
- **Achlys japonica**, Maxim. & Komarov, in Act. Hort. Petrop. xxii. (1903) 324.
- **Aconitum albo-violaceum**, Komarov, in Act. Hort. Petrop. xviii. (1901) 439.
  - **Bodinieri**, Léveillé & Vaniot, in Bull. Acad. Géog. Bot. xi. (1902) 45.
  - **Delavayi**, Franch. in Bull. Soc. Bot. Fr. xxxiii. (1886) 381.
  - **Hemsleyanum**, E. Pritzel, in Engl. Jahrb. xxix. (1900) 329.
  - **Henryi**, E. Pritzel, *l. c.* 329.
  - **luteum**, Léveillé & Vaniot, in Bull. Acad. Géog. Bot. xi. (1902) 46.
  - **palmatum**, Don; Franch. in Bull. Soc. Bot. Fr. xxxiii. (1886) 381.
  - **racemulosum**, Franch. in Journ. de Bot. viii. (1894) 276.
  - **rotundifolium**, Kar. & Kir., var.; Maxim. ex Engl. Jahrb. xxix. (1900) 329.
  - **scaposum**, Franch. in Journ. de Bot. viii. (1894) 277.
  - **umbrosum**, Komarov, in Act. Hort. Petrop. xxii. (1903) 250.
  - **vaginatum**, E. Pritzel, in Engl. Jahrb. xxix. (1900) 328.
  - **volubile**, Pall.; Franch. in Bull. Soc. Bot. Fr. xxxiii. (1888) 381.

- Actæa erythrocarpa, Fisch.; Komarov, in Act. Hort. Petrop. xxii. (1903) 237.
  - spicata, Linn. ex Engl. Jahrb. xxix. (1900) 326.
- Actinidia lanata, Hemsl. in Ann. Bot. ix. (1895) 146.
  - melanandra, Franch. in Journ. de Bot. viii. (1894) 278.
  - tetramera, Maxim. in Act. Hort. Petrop. xi. (1889) 35.
  - trichogyne, Franch. in Journ. de Bot. viii. (1894) 278.
- Actinostemma biglandulosa, Hemsl. in Hook. Ic. Pl xxvii. (1899) tt. 2622, 2645.
  - multilobum, Harms, in Engl. Jahrb. xxix. (1900) 602.
- Adenophora aurita, Franch. in Journ. de Bot. ix. (1895) 366.
  - Bockiana, Diels, in Engl. Jahrb. xxix. (1900) 605.
  - jasionifolia, Franch. in Journ. de Bot. ix. (1895) 365.
  - marsupiiflora, Fisch., var.; Diels, in Engl. Jahrb. xxix. (1900) 605.
  - Potanini, Korsh. in Engl. Jahrb. xxix. (1900) 606.
  - Wawreana, Zahlbruckner, in Ann. Hofmus. Wien, x. (1895) 56.
- Adinandra Bockiana, E. Pritzel, in Engl. Jahrb. xxix. (1900) 474.
- Adlumia cirrhosa, Rafin.; Komarov, in Act. Hort. Petrop. xxii. (1903) 343.
- Adonis amurensis, Regel & Radde; Komarov, in Act. Hort. Petrop. xxii. (1903) 315.
  - brevistyla, Franch. in Bull Soc. Bot. Fr. xxxiii. (1886) 372.
  - Davidi, Franch. Pl. David. in Nouv. Arch. Mus. Hist. Nat. Par. sér. 2, viii. (1885) 188.
  - Delavayi, Franch. in Bull. Soc. Phil. Par. sér. 8, vi. (1894) 91.
  - sutchuenensis, Franch. *l. c.* 89.
- Ægopodium alpestre, Ledeb.; Bull. Herb. Boiss. sér. 2, iii. (1903) 954.
  - Henryi, Diels, in Engl. Jahrb. xxix. (1900) 497.
- Æschynanthus buxifolius, Dunn, in Journ. Linn. Soc., Bot. xxxv. (1903) 515.
  - humilis, Dunn, *l. c.* 516.
- Æsculus indica, Colebr.; Franch. in Journ. de Bot. iv. (1890) 303.
- Aganosma Edithæ, Hance, in Ann. Sci. Nat. sér. 5, v. (1866) 227.
- Agapetes parviflora, Dunn, in Journ. Linn. Soc., Bot. xxxv. (1903) 515.
  - vaccinioidea, Léveillé, in Bull. Acad. Géog. Bot. xii. (1903) 251.
  - vaccinoides, Dunn, in Journ. Linn. Soc., Bot. xxxv. (1903) 515.
  - yunnanensis, Franch. in Journ. de Bot. ix. (1895) 366.
- Ainsliæa elegans, Hemsl. in Hook. Ic. Pl. xxviii. (1902) t. 2747.
  - gracilis, Franch. in Journ. de Bot. viii. (1894) 297.
  - grossedentata, Franch. *l. c.* 297.
  - Henryi, Diels, in Engl. Jahrb. xxix. (1900) 628.
  - lancifolia, Franch. Pl. David. in Nouv. Arch. Mus. Hist. Nat. Par. sér. 2, x. (1887–88) 41.
  - nervosa, Franch. in Bull. Mus. Hist. Nat. Par. (1896) no. 2, 64.

Ainsliæa ovalifolia, Vaniot, in Bull. Acad. Géog. Bot. xii. (1903) 119.
rubrifolia, Franch. in Journ. de Bot. viii. (1894) 296.
scabrida, Dunn, in Journ. Linn. Soc., Bot. xxxv. (1903) 510.
sparsiflora, Vaniot, in Bull. Acad. Géog. Bot. xii. (1903) 118.
spicata, Vaniot, *l. c.* 117.
sutchuenensis, Franch. in Journ. de Bot. viii. (1894) 296.
undulata, Diels, in Engl. Jahrb. xxix. (1900) 629.
Ajuga ovalifolia, Bur. & Franch. in Journ. de Bot. v. (1891) 150.
Akebia lobata, Decne., var.; Diels, in Engl. Jahrb. xxix. (1900) 344.
longeracemosa, Matsuma, in Bot. Mag. Tokyo, xiii. (1899) 18.
Alangium Faberi, Oliver, in Hook. Ic. Pl. xviii. (1888) t. 1774.
Albizzia bracteata, Dunn, in Journ. Linn. Soc., Bot. xxxv. (1903) 493.
odoratissima, Benth. var.; Franch. Pl. Delav. (1890) 193.
Alliaria auriculata, Komarov, in Act. Hort. Petrop. xviii. (1901) 437.
Allium Zimmermanianum, Gilg, in Engl. Bot. Jahrb. xxxiv. (1904) Beibl. 75, 23.
Alniphyllum, Matsuma, in Bot. Mag. Tokyo, xv. (1901) 67.
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veronicæfolia, Franch. in Journ. de Bot. x. (1896) 382.
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Bodinieria, H. Léveillé & Vaniot, in Bull. Acad. Géog. Bot. xi. (1902) 48.
thalictrifolia, H. Léveillé & Vaniot, *l. c.* 48.
Boehmeriopsis, Komarov, in Act. Hort. Petrop. xviii. (1901) 441.
pallida, Komarov, *l. c.* 441.
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Botryopleuron, Hemsl. in Hook. Ic. Pl. xxvii. (1900) t. 2670.
axillare, Hemsl. *l. c.*
latifolium, Hemsl. *l. c.*
stenostachyum, Hemsl. *l. c.*
venosum, Hemsl. *l. c.*
Bournea sinensis, Oliver, in Hook. Ic. Pl. xxiii. (1893) t. 2254.
Brachyactis chinensis, Bur. & Franch. in Journ. de Bot. v. (1891) 69.
Brandisia racemosa, Hemsl. in Kew Bull. (1895) 114.
Brassaiopsis ciliata, Dunn, in Journ. Linn. Soc., Bot. xxxv. (1903) 499.
ficifolia, Dunn, *l. c.* 500.
Braya rubicunda, Franch. in Bull. Soc. Bot. Fr. xxxiii. (1886) 403.
sinensis, Hemsl. in Journ. Linn. Soc., Bot. xxix. (1893) 303.
sinuata, Maxim. Fl. Tangut. (1889) 69.
Bretschneidera, Hemsl. in Hook. Ic. Pl. xxviii. (1901) t. 2708.
sinensis, Hemsl. *l. c.*
Broussonetia Kazinoki, Sieb.; Engl. Jahrb. xxix. (1900) 298.
Brunella vulgaris, Franch. in Nouv. Arch. Mus. Hist. Nat. Par. sér. 2, x. (1887–8) 70.
Buckleya Graebneriana, Diels, in Engl. Jahrb. xxix. (1900) 306.
Henryi, Diels, *l. c.* 306.
Buddleia acutifolia, C. H. Wright, in Kew Bull. (1896) 24.
Davidi, Franch. Pl. Dav. in Nouv. Arch. Mus. Hist. Nat. Par. sér. 2, x. (1888) 65.
Giraldii, Diels, in Engl. Jahrb. xxix. (1900) 535.
Hemsleyana, Koehne, in Gartenfl. (1903) 169.
officinalis, Oliver, in Hook. Ic. Pl. xx. (1891) 1972.
Bupleurum Candollei, Wall.; Boissieu, in Bull. Herb. Boiss. sér. 2, ii. (1902) 805.
commelinoideum, Boissieu, *l. c.*
gracilipes, Diels, in Engl. Jahrb. xxix. (1900) 493.
longicaule, Wall.; Diels, *l. c.* 493.
longiradiatum, Turcz.; Diels, *l. c.* 493.

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  - petiolulatum, Franch. in Bull. Soc. Phil. Par. sér. 8, vi. (1894) 119.
  - sachalinense, F. Schmidt; Boissieu, in Bull. Herb. Boiss. sér. 2, iii. (1903) 958.
  - tenue, Buch.-Ham. ex D. Don; Engl. Jahrb. xxix. (1900) 493.
  - yunnanense, Franch. in Bull. Soc. Phil. Par. sér. 8, vi. (1894) 117.

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- Cæsalpinia Morsei, Dunn, in Journ. Linn. Soc., Bot. xxxv. (1903) 492.
- Calanthe alpina, Hook. f.; Finet, in Bull. Soc. Bot. Fr. xlv. (1898) 412.
  - biloba, Lindl.; Finet, *l. c.* 412.
  - Davidi, Franch. Pl. Dav. in Nouv. Arch. Mus. Hist. Nat. Par. sér. 2, x. (1887–8) 85.
  - Delavayi, Franch. in Bull. Soc. Bot. Fr. xlvi. (1899) 434.
  - Fargesii, Franch. *l. c.*
  - fimbriata, Franch. in Nouv. Arch. Mus. Hist. Nat. Par. sér. 2, x. (1887–88) 86.
  - megalopha, Franch. *l. c.* 85.
  - pusilla, Franch. in Bull. Soc. Bot. Fr. xlvi. (1899) 436.
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  - Fargesii, Franch. *l. c.* 16.
  - sutchuenensis, Franch. *l. c.* 17.
- Calypso japonica, Maxim. in Act. Hort. Petrop. xx. (1901) 533.
- Camellia gracilis, Hemsl. in Ann. Bot. ix. (1895) 146.
- Campanula chrysosplenifolia, Franch. in Journ. de Bot. ix. (1895) 364.
  - crenulata, Franch. *l. c.* 365.
  - Delavayi, Franch. *l. c.* 364.
- Campanumæa truncata, Wall.; Diels, in Engl. Jahrb. xxix. (1900) 606.
- Capparis formosana, Hemsl. in Ann. Bot. ix. (1895) 145.
  - hainanensis, Oliver, in Hook. Ic. Pl. xvi. (1887) 1588.
  - Henryi, Matsum. in Bot. Mag. Tokyo (1899), 33.
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  - Gerardiana, Royle; Franch. *l. c.*
- Cardamine circæoides, Hook. f. & Thoms.; Engl. Jahrb. xxxii. (1902) 441.
  - Delavayi, Franch. in Bull. Soc. Bot. Fr. xxxiii. (1886) 397.
  - Engleriana, Schulz, in Engl. Jahrb. xxxii. (1902) 407.

Cardamine flexuosa, Withering; Engl. Jahrb. xxxii. (1902) 474.
    Var. occulta, Harms; Engl. *l. c.* 479.
  fragariifolia, Schulz, in Engl. *l. c.* 446.
  insignis, Schulz, *l. c.* 439.
  leucantha, Tausch; Schulz, in Engl. *l. c.* 403.
  microzyga, Schulz, *l. c.* 545.
  multijuga, Franch. in Bull. Soc. Bot. Fr. xxxiii. (1886) 399.
  prorepens, Fisch.; Komarov, in Act. Hort. Petrop. xxii. (1903) 360.
  stenoloba, Hemsl. in Journ. Linn. Soc., Bot. xxix. (1893) 303.
  Tangutorum, Schulz, in Engl. Jahrb. xxxii. (1902) 360.
  Urbaniana, Schulz, *l. c.* 396.
  violifolia, Schulz, *l. c.* 440.
  yunnanensis, Franch. in Bull. Soc. Bot. Fr. xxxiii. (1886) 398.
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Carlesia, Dunn, in Hook. Ic. Pl. xxviii. (1902) t. 2739.
  sinensis, Dunn, *l. c.* t. 2739.
Carolinella, Hemsl. in Hook. Ic. Pl. xxviii. (1902) t. 2726.
  cordifolia, Hemsl. *l. c.* (1903) t. 2775.
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Carpesium Atkinsonianum, Hemsl. in Kew Bull. (1893) 79, 157.
  eximium, Winkl. in Act. Hort. Petrop. xiv. (1895) 58.
  Faberi, Winkl. *l. c.* 65.
  humile, Winkl. *l. c.* 70.
  Lipskyi, Winkl. *l. c.* 68.
  triste, Maxim., var., Diels, in Engl. Jahrb. xxix. (1900) 615.
  velutinum, Winkl. in Act. Hort. Petrop. xiv. (1895) 73.
Carpinus Seemeniana, Diels, in Engl. Jahrb. xxix. (1900) 279.
Carrieria, Franch. in Rev. Hort. (1896) 497.
  calycina, Franch. *l. c.* 497.
Carum Candolleanum, Franch. in Bull. Soc. Phil. Par. sér. 8, vi. (1894) 127.
  cardiocarpum, Franch. *l. c.* 120.
  Carvi, Linn.; Boissieu, in Bull. Herb. Boiss. sér. 2, ii. (1902) 806.
  caudatum, Franch. in Bull. Soc. Phil. Par. sér. 8, vi. (1894) 126.
  coriaceum, Franch. *l. c.* 127.
  cruciatum, Franch. *l. c.* 124.
  Delavayi, Franch. *l. c.* 120.
  dissectum, Franch. *l. c.* 123.
  filicinum, Franch. *l. c.* 121.
  flaccidum, Franch. *l. c.* 126.
  Hookeri, Franch. *l. c.* 122.
  loloense, Franch. *l. c.* 125.
  molle, Franch. *l. c.* 120.
  neurophyllum, Maxim.; Boissieu, in Bull. Herb. Boiss. sér. 2, iii. (1903) 958.

CARUM PANICULATUM, Franch. in Bull. Soc. Phil. Par. sér. 8, vi. (1894) 122.

PURPUREUM, Franch. *l. c.* 127.

SCABERULUM, Franch. *l. c.* 125.

SCHIZOPETALUM, Franch. *l. c.* ii. (1890) 199.

SINENSE, Franch. *l. c.* vi. (1894) 119.

TANAKÆ, Franch. & Sav.; Franch. *l. c.* 121.

TENERUM, Franch. *l. c.* 122.

TRICHOMANIFOLIUM, Franch. in Bull. Mus. Hist. Nat. Par. No. 2 (1895) 64.

YUNNANENSE, Franch. in Bull. Soc. Phil. Par. sér. 8, vi. (1894) 128.

CARYOPTERIS PARVIFOLIA, Batalin, in Act. Hort. Petrop. xiii. (1893) 98.

CASSINE JAPONICA, O. Kuntze; Engl. & Prantl, Nat. Pflanzenf. iii. 5 (1892) 215.

CATALPA FARGESII, Bur. in Nouv. Arch. Mus. Hist. Nat. Par. sér. 3, vi. (1894) 195.

UMBRACULIFERA, Hort.; Bull. Soc. Tosc. Ort. (1888) 330.

VESTITA, Diels, in Engl. Jahrb. xxix. (1900) 577.

CATHCARTIA DELAVAYI, Franch. in Bull. Soc. Bot. Fr. xxxiii. (1886) 390.

LANCIFOLIA, Franch. *l. c.* 391.

CAULOPHYLLUM ROBUSTUM, Maxim.; Komarov, in Act. Hort. Petrop. xxii. (1903) 326.

CEDRELA TOONA, Roxb.; Franch. in Bull. Soc. Bot. Fr. xxxiii. (1886) 449.

CELASTRUS FRANCHETIANUS, Loes. in Engl. Jahrb. xxx. (1902) 470.

GEMMATUS, Loes. *l. c.* 468.

HYPOGLAUCUS, Hemsl. in Ann. Bot. ix. (1895) 150

HYPOLEUCUS, Oliver; Loes. in Engl. Jahrb. xxix. (1900) 445.

MONOSPERMUS, Roxb.; Loes. *l. c.* xxx. (1902) 467.

ORBICULATUS, var., Loes. *l. c.* 469.

PANICULATUS, Willd.; Loes. *l. c.* 470.

RACEMULOSUS, Franch. in Bull. Soc. Bot. Fr. xxxiii. (1886) 455.

ROSTHORNIANUS, Loes. in Engl. Jahrb. xxix. (1900) 445.

STYLOSUS, Wall.; Loes. *l. c.* xxx. (1902) 469.

CENTELLA ASIATICA, Urb.; Boissieu, in Bull. Herb. Boiss. sér. 2, ii. (1902) 802.

CEPHALANTHERA LONGIBRACTEATA, Blume; Act. Hort. Petrop. xix. (1901) 104.

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CERASTIUM ALPINUM, Linn.; Franch. in Journ. de Bot. iv. (1890) 303.

FIMBRIATUM, E. Pritzel, in Engl. Jahrb. xxix. (1900) 320.

PUMILUM, Curt.; Franch. in Bull. Soc. Bot. Fr. xxxiii. (1886) 435.

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- ✓ Ceratostigma Griffithii, C. B. Clarke; Engl. Jahrb. xxix. (1900) 525.
- Cercis racemosa, Oliver, in Hook. Ic. Pl. xix. (1889) t. 1894.
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- Chavica hainana, C. DC., Ann. Conserv. Jard. Bot. Genève, ii. (1898) 275.
- Cheiranthus roseus, Maxim. Fl. Tangut. (1889) 57.
- Chelidonium Franchetianum, Prain, in Bull. Herb. Boiss. iii. (1895) 586.
  - japonicum, Thunb.; Act. Hort. Petrop. xvi. (1899) 23.
  - lasiocarpum, Oliver, in Hook. Ic. Pl. xviii. (1888) t. 1739.
  - leptopodum, Prain, in Bull. Herb. Boiss. iii. (1895) 586.
  - sutchuenense, Franch. in Journ. de Bot. viii. (1894) 293.
- ✓ Chelonopsis deflexa, Benth.; Diels, in Engl. Jahrb. xxix. (1900) 554.
- Chenopodium bryoniæfolium, Bunge; Komarov, in Act. Hort. Petrop. xxii. (1903) 151.
  - rubrum, Linn.; Komarov, *l. c.* 154.
- Chimonanthus nitens, Oliver, in Hook. Ic. Pl. xvi. (1887) t. 1600.
- Chirita depressa, Hook. f. Bot. Mag. t. 7213.
  - speciosa, Kurz, in Journ. Bot. xi. (1873) 195.
- Chrysanthemum tatsienense, Bur. & Franch. in Journ. de Bot. v. (1891) 72.
- Chrysosplenium aomorense, Tokubuchi, in Bot. Mag. Tokyo, ix. (1895) 334.
  - baicalense, Maxim.; Komarov, in Act. Hort. Petrop. xxii. (1903) 423.
  - ciliatum, Franch. in Nouv. Arch. Mus. Hist. Nat. Par. sér. 3, ii. (1890) 108.
  - gracile, Franch. Pl. Dav. *l. c.* sér. 2, viii. (1885) 234.
  - ✓ Grayanum, Maxim.; Engl. Jahrb. xxix. (1900) 368.
  - Henryi, Franch. in Nouv. Arch. Mus. Hist. Nat. Par. sér. 3, ii. (1890) 112.
  - macrophyllum, Oliver, in Hook. Ic. Pl. xviii. (1888) t. 1744.
  - microspermum, Franch. in Nouv. Arch. Mus. Hist. Nat. Par. sér. 3, ii. (1890) 109.
  - nepalense, Franch. Pl. Delav. i. (1890) 249.
  - nodulosum, Tokubuchi, Bot. Mag. Tokyo, ix. (1895) 334.
  - pilosum, Komarov, Act. Hort. Petrop. xxii. (1903) 424.
  - pumilum, Franch. Pl. Delav. (1889) 249.
  - ramosum, Maxim.; Komarov, in Act. Hort. Petrop. xxii. (1903) 422.

CHRYSOSPLENIUM TIANSCHANICUM, Krassn. Script. Hort. Univ. Petrop. ii. I. (1887-8) 16.

  VILLOSUM, Franch. in Journ. de Bot. iv. (1890) 305.

CIMICIFUGA CALTHÆFOLIA, Oliver, in Hook. Ic. Pl. xviii. (1888) t. 1746.

  FŒTIDA, Linn.; Engl. Jahrb. xxix. (1900) 326.

  HERACLEIFOLIA, Komarov, in Act. Hort. Petrop. xviii. (1901) 438.

  JAPONICA, Spreng.; Engl. Jahrb. xxix. (1900) 326.

  SIMPLEX, Wormsk.; Engl. *l. c.* 326.

CIRCÆA QUADRISULCATA, Maxim.; Engl. Jahrb. xxix. (1900) 485.

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  CHINENSE, Gardn. & Champ. var., Diels, Engl. Jahrb. xxix. (1900) 628.

  FARGESII, Franch.; Diels, *l. c.* 627.

  HENRYI, Franch.; Diels, *l. c.*

  WALLICHII, DC.; Diels, *l. c.*

CISSUS CARNOSA, Wall.; Engl. Jahrb. xxix. (1900) 466.

  SETULOSA, Diels & Gilg, *l. c.* 467.

CITRUS HYSTRIX, DC.; Engl. Jahrb. xxix. (1900) 424.

CLADRASTIS SINENSIS, Hemsl. in Journ. Linn. Soc., Bot. xxix. (1893) 304.

CLEMATIS ARMANDI, Franch. Pl. Dav. in Nouv. Arch. Mus. Hist. Nat. Par. sér. 2, viii. (1885) 184.

  ATRAGENOIDES, Batalin, in Act. Hort. Petrop. xi. (1891) 481.

  BUCHANANIANA, DC.; H. Léveillé & Vaniot, in Bull. Acad. Géog. Bot. x. (1902) 169.

  CHRYSOCOMA, Franch. in Bull. Soc. Bot. Fr. xxxiii. (1886) 362.

  CLARKEANA, H. Léveillé & Vaniot, in Bull. Acad. Géog. Bot. xi. (1902) 170.

  COREANA, H. Léveillé & Vaniot, *l. c.* 298.

  DASYANDRA, Maxim.; Act. Hort. Petrop. xi. (1890) 7.

  DELAVAYI, Franch. in Bull. Soc. Bot. Fr. xxxiii. (1886) 360.

  DRAKEANA, H. Léveillé & Vaniot, Bull. Acad. Géog. Bot. xi. (1902) 168.

  FARGESII, Franch. in Journ. de Bot. viii. (1894) 273.

  FASCICULIFLORA, Franch. Pl. Delav. (1889) 5.

  FORMOSANA, O. Kuntze, in Hook. Ic. Pl. xx. (1890) t. 1945.

  FRUTICOSA, var., Maxim. in Act. Hort. Petrop. xi. (1890) 5.

  FUNEBRIS, H. Léveillé & Vaniot, in Bull. Acad. Géog. Bot. xi. (1902) 168.

  FUSCA, Turcz.; H. Léveillé & Vaniot, *l. c.* 299.

  GOURIEANA, Roxb.; Engl. Jahrb. xxix. (1900) 332.

  HEDYSARIFOLIA, DC. ex H. Léveillé & Vaniot, in Bull. Acad. Géog. Bot. xi. (1902) 169.

  HENRYI, Oliver, in Hook. Ic. Pl. xix. (1889) 1819.

  INTRICATA, Bunge, var., Maxim.; Komarov, in Act. Hort. Petrop. xxii. (1903) 288.

Clematis koreana, Komarov, in Act. Hort. Petrop. xviii. (1901) 438.
Kuntziana, H. Léveillé & Vaniot, Bull. Acad. Géog. Bot. xi. (1903) 171.
lancifolia, Bur. & Franch. in Journ. de Bot. v. (1891) 18.
lasiandra, Maxim. in Act. Hort. Petrop. xi. (1890) 7.
leiocarpa, Oliver, in Hook. Ic. Pl. xvi. (1888) t. 1533.
montana, var., Maxim. in Act. Hort. Petrop. xi. (1890) 10.
obscura, Maxim. *l. c.* 6.
philippiana, H. Léveillé & Vaniot, in Bull. Acad. Géog. Bot. xi. (1903) 169.
pogonandra, Maxim. in Act. Hort. Petrop. xi. (1890) 8.
Potanini, Maxim. *l. c.* 9.
Prattii, Hemsl. in Kew Bull. (1892) 82.
pterantha, Dunn, in Hook. Ic. Pl. xxviii. (1901) t. 2713.
ranunculoides, Franch. in Bull. Soc. Bot. Fr. xxxiii. (1886) 360.
rubifolia, C. H. Wright, in Kew Bull. (1896) 21.
spectabilis, Palibin, in Act. Hort. Petrop. xvii. (1899) 12.
splendens, H. Léveillé & Vaniot, in Bull. Acad. Géog. Bot. xi. (1902) 171.
Tashiroi, Maxim. in Bull. Acad. Pétersb. xxxii. (1888) 477.
Vitalba, Linn., var., Franch. Pl. Delav. (1889) 4.
yunnanensis, Franch. in Bull. Soc. Bot. Fr. xxxiii. (1886) 361.
Clematoclethra actinidioides, Maxim. in Act. Hort. Petrop. xi. (1890) 38.
cordifolia, Franch. in Journ. de Bot. viii. (1894) 279.
Faberi, Franch. *l. c.* 279.
Giraldii, Diels, in Engl. Jahrb. xxix. (1900) 472.
Hemsleyi, Baill. in Bull. Soc. Linn. Par. ii. (1890) 873.
integrifolia, Maxim. in Act. Hort. Petrop. xi. (1890) 38.
lasioclada, Maxim. *l. c.* 38.
Maximowiczi, Baill. in Bull. Soc. Linn. Par. ii. (1890) 873.
scandens, Franch. Pl. Dav. in Nouv. Arch. Mus. Hist. Nat. Par. sér. 2, x. (1887–8) 53.
strigillosa, Franch. in Journ. de Bot. viii. (1894) 280.
tomentella, Franch. *l. c.*
Clerodendron Mandarinorum, Diels, in Engl. Jahrb. xxix. (1900) 549.
moupinense, Franch. Pl. Dav. in Nouv. Arch. Mus. Hist. Nat. Par. sér. 2, x. (1887–8) 68.
subscaposum, Hemsl. in Hook. Ic. Pl. xxvii. (1900) t. 2675.
Clethra Delavayi, Franch. in Journ. de Bot. ix. (1895) 370.
Fargesii, Franch. *l. c.* 369.
Cnicus argyracanthus, Hook. f.; Franch. in Journ. de Bot. xi. (1897) 24.

- Cnicus Bodinieri, Vaniot, in Bull. Acad. Géog. Bot. xii. (1903) 121.
  - Cerberus, Vaniot, *l. c.* 120.
  - Fargesii, Franch. in Journ. de Bot. xi. (1897) 22.
  - Henryi, Franch. *l. c.* 21.
  - involucratus, Hook. f.; Franch. *l. c.* 24.
  - Leduci, Franch. *l. c.* 23.
  - monocephalus, Vaniot, in Bull. Acad. Géog. Bot. xii. (1903) 122.
  - Provosti, Franch. in Journ. de Bot. xi. (1897) 23.
  - Souliei, Franch. *l. c.* 21.
  - suffultus, Franch. *l. c.* 24.
- Cocculus affinis, Oliver, in Hook. Ic. Pl. xviii. (1888) t. 1760.
- Cochlearia scapiflora, Hook. f. & Thoms.; Franch. Pl. Delav. (1889) 61.
- Codonopsis convolvulacea, Hemsl. in Hook. Ic. Pl. xxiv. (1895) t. 2385.
  - Henryi, Oliver, *l. c.* xx. (1891) t. 1967.
  - sylvestris, Komarov, in Act. Hort. Petrop. xviii. (1900) 425.
  - Tangshen, Oliver, in Hook. Ic. Pl. xx. (1891) t. 1966.
- Cœlogyne barbata, Griff.; Finet, in Bull. Soc. Bot. Fr. xlv. (1898) 412.
  - Mandarinorum, Kränzl.; Engl. Jahrb. xxix. (1900) 269.
  - nitida, Lindl.; Finet, in Bull. Soc. Bot. Fr. xlv. (1898) 412.
  - ochracea, Lindl.; Finet, *l. c.*
  - præcox, Lindl.; Finet, *l. c.*
- Coluria Henryi, Batalin, in Act. Hort. Petrop. xiii. (1893) 94.
- Colutea Delavayi, Franch. Pl. Delav. (1889) 158.
- Conyza pinnatifida, Franch. in Journ. de Bot. x. (1896) 381.
- Coptis chinensis, Franch. in Journ. de Bot. xi. (1897) 231.
- Corallodiscus, Batalin, in Act. Hort. Petrop. xii. (1892) 176.
  - conchæfolius, Batalin, *l. c.* 176.
- Corchoropsis psilocarpa, Harms et Loes. in Engl. Jahrb. xxxiv. (1904) Beibl. 75, p. 51.
- Corchorus olitorius, Linn.; Franch. in Bull. Soc. Bot. Fr. xxxiii. (1886) 441.
- Coriaria intermedia, Matsum. in Bot. Mag. Tokyo, xii. (1898) 62.
  - nepaulensis, Wall.; Franch. in Bull. Soc. Bot. Fr. xxxiii. (1886) 451.
  - terminalis, Hemsl. in Hook. Ic. Pl. xxiii. (1892) t. 2220.
- Corispermum elongatum, Bunge; Komarov, in Act. Hort. Petrop. xxii. (1903) 158.
- Cornus Bretschneideri, J. Henry, in Le Jardin (1899) 309.
  - quinquenervis, Franch. in Journ. de Bot. x. (1896) 307.
  - scabridus, Franch. Pl. Dav. in Nouv. Arch. Mus. Hist. Nat. Par. sér. 2, viii. (1885) 250.
- Cortusa pekinensis, A. Richt. in Termész. Füzétek (1894) 130.

Corydalis acuminata, Franch. in Journ. de Bot. viii. (1894) 285.
aegopodioides, H. Léveillé & Vaniot, in Bull. Acad. Géog. Bot. xi. (1902) 173.
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anthrisicifolia, Franch. Pl. Dav. in Nouv. Arch. Mus. Hist. Nat. Par. sér. 2, viii. (1885) 196.
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  - tongolensis, Franch. in Journ. de Bot. viii. (1894) 285.
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  - trisecta, Franch. in Journ. de Bot. viii. (1891) 284.
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  - yunnanensis, Franch. in Bull. Soc. Bot. Fr. xxxiii. (1886) 394.
- Corylopsis, n. sp., Diels, in Engl. Jahrb. xxix. (1900) 380, 381.
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- Crepis Bockiana, Diels, in Engl. Jahrb. xxix. (1900) 633.
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    - rufescens, Franch. in Nouv. Arch. Mus. Hist. Nat. Par. sér. 2, x. (1887–88) 133.
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    - vulgaris, Dunn, in Hook. Ic. Pl. xxviii. (1902) t. 2737.
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  - **Rosthorni**, Diels, in Engl. *l. c.*
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  - lividum, Hausskn.; H. Léveillé, *l. c.* viii. (1898) 5.
  - minutiflorum, Hausskn.; H. Léveillé, *l. c.* xii. (1903) 17.
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  - nepalense, Haussk.; H. Léveillé, *l. c.* ii. (1893) 341.
  - nervosum, Boiss. & Buhse; H. Léveillé, *l. c.* xii. (1903) 17.
  - nudicarpum, Komarov, in Act. Hort. Petrop. xviii. (1901) 432.
  - Rouyanum, H. Léveillé, in Bull. Acad. Géog. Bot. xii. (1903) 17.
  - Wallichianum, Hausskn.; H. Léveillé, *l. c.*
- Epimedium acuminatum, Franch. in Bull. Soc. Bot. Fr. xxxiii. (1886) 109.
  - brevicornu, Maxim. in Act. Hort. Petrop. xi. 1. (1889) 42.
  - Davidi, Franch. Pl. Dav. in Nouv. Arch. Mus. Hist. Nat. Par. sér. 2, viii. (1885) 195.
  - Fargesii, Franch. Journ. de Bot. viii. (1894) 281.
  - sutchuenense, Franch. *l. c.* 282.
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  - latifolia, Swartz; Bull. Soc. Bot. Fr. xlv. (1898) 413.
  - macrostachya, Kränzl.; Engl. Jahrb. xxix. (1900) 268.
- Eranthis albiflora, Franch. Pl. Dav. in Nouv. Arch. Mus. Hist. Nat. Par. sér. 2, viii. (1885) 191.
  - Vaniotiana, H. Léveillé, in Bull. Acad. Géog. Bot. xi. (1902) 299.
- Erigeron moupinensis, Franch. Pl. Dav. in Nouv. Arch. Mus. Hist. Nat. Par. sér. 2, x. (1887-88) 36.
- Eriobotrya dubia, Decne.; Franch. Pl. Delav. (1890) 224.
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  - lasiogyna, Franch. *l. c.* 225.
  - prionophylla, Franch. *l. c.*
- Eriocaulon decemflorum, Maxim. Diagn. Pl. Nov. As. fasc. viii. (1893) 7.
  - dicline, Maxim. *l. c.*
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- Eritrichium radicans, A. DC. in Act. Hort. Petrop. xviii. (1900) 162.
- Eryngium fœtidum, Linn.; Hemsl. in Journ. Linn. Soc., Bot. xxxiv. (1900) 475.
- Erysimum aurantiacum, Maxim. Enum. Pl. Mong. (1889) 65.
  - yunnanense, Franch. in Bull. Soc. Bot. Fr. xxxiii. (1886) 404.
- Erythrospermum hypoleucum, Oliver, in Hook. Ic. Pl. xix. (1889) t. 1899.
- Euchresta tubulosa, Dunn, in Journ. Linn. Soc., Bot. xxxv. (1903) 492.

- EUCOMMIA ULMOIDES, Oliver, in Hook. Ic. Pl. xx. (1890) t. 1950; xxiv. (1895) t. 2361.
- EUONYMUS ACANTHOCARPA, Franch. Pl. Delav. (1889) 129.
  - ACTINOCARPA, Loes. in Engl. Jahrb. xxx. (1901) 459.
  - ACULEATA, Hemsl. in Kew Bull. (1893) 209.
  - AMYGDALIFOLIA, Franch. in Bull. Soc. Bot. Fr. xxxiii. (1886) 453.
  - BOCKII, Loes. in Engl. Jahrb. xxix. (1900) 439.
  - CHINENSIS, Lindl. vars., Loes. in Engl. Jahrb. xxix. (1900) 436.
  - CORNUTUS, Hemsl. in Kew Bull. (1893) 209.
  - DIELSIANA, Loes. in Engl. Jahrb. xxix. (1900) 440.
  - FIMBRIATA, Wall. ex Engl. Jahrb. xxx. (1902) 465.
  - FLAVESCENS, Loes. *l. c.* xxix. (1900) 437.
  - FORBESIANA, Loes. *l. c.* xxx. (1902) 457.
  - GIRALDII, Loes. *l. c.* xxix. (1900) 442.
  - GRANDIFLORA, Wall. ex Loes. *l. c.* 439.
  - HEMSLEYANA, Loes. *l. c.* xxx. (1902) 460.
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  - ILICIFOLIA, Franch. in Bull. Soc. Bot. Fr. xxxiii. (1886) 452.
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  - LANCEIFOLIA, Loes. *l. c.* 462.
  - LINEARIFOLIA, Franch. in Bull. Soc. Bot. Fr. xxxiii. (1886) 455.
  - LUTCHUENSIS, T. Ito & Matsum. Engl. Jahrb. xxx. (1902) 456.
  - MACROPTERA, Rupr. ex Engl. *l. c.* 465.
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  - PHELLOMANA, Loes. in Engl. Jahrb. xxix. (1900) 444.
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  - SALICIFOLIA, Loes. *l. c.* xxx. (1902) 458.
  - SANGUINEA, Loes. *l. c.* xxix. (1901) 441.
  - TASHIROI, Maxim. in Bull. Acad. Pétersb. xxxi. (1887) 23.
  - THEIFOLIA, Wall. var.; Loes. in Engl. Jahrb. xxx. (1902) 455.
  - TONKINENSIS, Loes. *l. c.* 453.
  - VENOSA, Hemsl. in Kew Bull. (1893) 210.
  - VERRUCOSOIDES, Loes. in Engl. Jahrb. xxx. (1902) 462.
  - YUNNANENSIS, Franch. in Bull. Soc. Bot. Fr. xxxiii. (1886) 454.
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- EUPTELEA DAVIDIANA, Baillon, Adansonia, xi. (1873–76) 305.
  - DELAVAYI, van Tiegh. in Journ. de Bot. xiv. (1900) 273.
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  - POLYANDRA, Sieb. & Zucc.; Engl. *l. c.*
- EURYA GYNANDRA, Vesque, in Bull. Soc. Bot. Fr. xlii. (1897) 160.
  - HENRYI, Hemsl. in Hook. Ic. Pl. xxviii. (1903) sub t. 2761.
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    - OMEIENSIS, Hemsl. *l. c.* 314.
    - PLATYPETALA, Franch. in Nouv. Arch. Mus. Hist. Nat. Par. sér. 2, x. (1887–8) 59.
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    - RAMOSA, Wall. var.; Franch. *l. c.* 463.
    - TRICHOPODA, Franch. *l. c.* 464.
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- MACHILUS PLATYPHYLLA, Diels, in Engl. Jahrb. xxix. (1900) 348.
    - THUNBERGII, Sieb. & Zucc.; Hook. Ic. Pl. xxvi. (1897) t. 2538.
- MADDENIA HIMALAICA, Hook. f. & Thoms.; Engl. Jahrb. xxix. (1900) 406.
- MAESA CASTANEIFOLIA, Mez, in Engl. Pflanzenr., Myrsin. 44.
    - DEPAUPERATA, Diels, in Engl. Jahrb. xxix. (1900) 519.
    - FORMOSANA, Mez, in Engl. Pflanzenr., Myrsin. 29.
    - TENERA, Mez, *l. c.* 28.
- MAGNOLIA DELAVAYI, Franch. Pl. Delav. (1889) 33.
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    - PARVIFLORA, Sieb. & Zucc.; Act. Hort. Petrop. xvii. 1. (1899) 19.
- MAHONIA = BERBERIS.
    - EURYBRACTEATA, Fedde; Engl. Jahrb. xxix. (1900) 338.
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    - GRACILIPES, Fedde, in Engl. *l. c.* 338.
    - JAPONICA, Thunb. var. Fort.; Fedde, *l. c.*
    - POLYODONTA, Fedde, *l. c.* 339.
    - SUBTRIPLINERVIS, Franch. in Bull. Mus. Hist. Nat. Paris, i. (1895) 63.
    - TRIFURCA, Loudon; Engl. Jahrb. xxxi. (1902) 125.
- MALLOTUS ALBUS, Muell. Arg.; Engl. Jahrb. xxix. (1900) 429.
    - TENUIFOLIUS, Pax, in Engl. Jahrb. xxix. (1900) 429.
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    - POLYMORPHA, Vaniot, *l. c.* 32.
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Henrici, Bur. & Franch. *l. c.*

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  grosseserrata, Maxim.; Bot. Mag. Tokyo, ix. (1895) 259.
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  sinica, Diels, in Engl. Jahrb. xxix. (1900) 425.
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  - ROSTHORNII, Diels, in Engl. Jahrb. xxix. (1900) 498.
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- OMPHALOGRAMMA, Franch. in Bull. Soc. Bot. Fr. xlv. (1898) 178.
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  - VINCÆFLORA, Franch. *l. c.*
- ONOSMA EXSERTUM, Hemsl. in Hook. Ic. Pl. xxvii. (1900) t. 2639.
  - PANICULATA, Bur. & Franch. Journ. de Bot. v. (1891) 104.
  - SINICA, Diels, in Engl. Jahrb. xxix. (1900) 547.
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  - JAPONICUS, Ker-Gawl., var.; Diels, *l. c.*
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  - STRIATA, Dunn, in Journ. Linn. Soc., Bot. xxxv. (1903) 492.
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  - COOPERI, Hemsl. in Kew Bull. (1896) 18.
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  - DELAVAYI, Franch. in Bull. Soc. Bot. Fr. xxxiii. (1886) 374.

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- Oxyria sinensis, Hemsl. in Journ. Linn. Soc., Bot. xxix. (1892) 317.
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    - melanocalyx, Bunge, *l. c.* 8.
    - ochrocephala, Bunge, *l. c.* 57.
    - strobilacea, Bunge, *l. c.* 103.
    - sylinchanensis, Franch. in Journ. de Bot. iv. (1890) 304.
    - trichophora, Franch. *l. c.* 303.
    - yunnanensis, Franch. Pl. Delav. (1890) 163.

- Pachysandra axillaris, Franch. Pl. Delav. (1889) 135.
- Pæonia anomala, Linn., var. Pall. ; Engl. Jahrb. xxix. (1900) 324.
    - Delavayi, Franch. in Bull. Soc. Bot. Fr. xxxiii. (1886) 382.
    - lutea, Franch. *l. c.*
- Paliurus hirsutus, Hemsl. in Kew Bull. (1894) 388.
    - orientalis, Hemsl. *l. c.* 387.
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    - sinensis, Stapf, *l. c.* t. 2743 B.
- Paris Bockiana, Diels, in Engl. Jahrb. xxix. (1900) 253.
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    - Franchetiana, H. Léveillé, *l. c.* 256.
    - Henryi, Diels, in Engl. Jahrb. xxix. (1900) 252.
    - Mercieri, H. Léveillé, in Bull. Acad. Géog. Bot. xii. (1903) 255.
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    - crassifolia, Franch. *l. c.* 253.
    - Davidii, Franch. Pl. Dav. in Nouv. Arch. Mus. Hist. Nat. Par. sér. 2, viii. (1885) 237.
    - Delavayi, Franch. in Journ. de Bot. x. (1896) 267.
    - Faberi, Oliver, in Hook. Ic. Pl. xviii. (1888) t. 1778.
    - Laxmanni, Pall. ; Franch. Bull. Soc. Bot. Fr. xliv. (1897) 256.

- Parnassia lutea, Batalin, in Act. Hort. Petrop. xiv. 11. (1898) 320.
  - monochorifolia, Franch. in Bull. Soc. Bot. Fr. xliv. (1897) 260.
  - Noemiæ, Franch. in Journ. de Bot. x. (1896) 281.
  - perciliata, Diels, in Engl. Jahrb. xxix. (1900) 369.
  - pusilla, Hook. f. & Thoms.; Nouv. Arch. Mus. Hist. Nat. Par. sér. 2, viii. (1885) 237.
  - setchuenensis, Franch. in Bull. Soc. Bot. Fr. xliv. (1897) 254.
  - viridiflora, Batalin, in Act. Hort. Petrop. xii. 6. (1892) 168.
  - Wightiana, Wall., var.; Franch. in Engl. Jahrb. xxix. (1900) 368.
  - yunnanensis, Franch. in Journ. de Bot. x. (1896) 266.
- Parochætus communis, Hamilt.; Franch. Pl. Delav. (1889) 153.
- Parrya Beketowi, Krassn. in Script. Hort. Petrop. ii. I. (1887–8) 12.
  - prolifera, Maxim. Fl. Tangut. (1889) 56.
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  - tricuspidata, Planch.; *l. c.* 464.
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  - decora, Dunn, in Hook. Ic. Pl. xxviii. (1901) t. 2712.
- Passiflora cupiformis, Mast. in Hook. Ic. Pl. xviii. (1888) t. 1768.
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  - Seguini, H. Léveillé & Vaniot, in Bull. Acad. Géog. Bot. xi. (1902) 174.
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  - bicolor, Diels, in Engl. Jahrb. xxix. (1900) 570.
  - Bietii, Franch. in Bull. Soc. Bot. Fr. xlvii. (1900) 34.
  - Biondiana, Diels, in Engl. Jahrb. xxix. (1900) 571.
  - birostris, Bur. & Franch. in Journ. de Bot. v. (1891) 107.
  - brevilabris, Franch. in Bull. Soc. Bot. Fr. xlvii. (1900) 33.
  - cinerascens, Franch. *l. c.* 30.
  - cyathophylla, Franch. *l. c.* 25.
  - Davidi, Franch. Pl. Dav. in Nouv. Arch. Mus. Hist. Nat. Par. sér. 2, x. (1887–8) 67.
  - decora, Franch. in Bull. Soc. Bot. Fr. xlvii. (1900) 28.

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Hemsleyana, Prain, in Hook. Ic. Pl. xxiii. (1892) t. 2210.

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kialensis, Franch. *l. c.* 22.

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longiflora, Rudolph ; Franch. in Journ. de Bot. iv. (1890) 317.

lyrata, Prain, var. ; Franch. in Bull. Soc. Bot. Fr. xlvii. (1900) 33.

macrosiphon, Franch. Pl. Dav. in Nouv. Arch. Mus. Hist. Nat. Par. sér. 2, x. (1887–8) 60.

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  - MINOR, Hemsl. *l. c.* t. 2600.
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  - ELEGANS, Komarov, in Act. Hort. Petrop. xviii. (1901) 430.
  - GIRALDII, Diels, in Engl. Jahrb. xxix. (1900) 503.
  - GRAVEOLENS, Benth.; Franch. in Bull. Soc. Phil. Par. sér. 2, vi. (1894) 141.
  - HETEROPHYLLUM, Franch. *l. c.*
  - MACILENTUM, Franch. *l. c.* 142.
  - MEDICUM, Dunn, in Journ. Linn. Soc., Bot. xxxv. (1903) 496.
  - PODAGRARIA, Boissieu, in Bull. Herb. Boiss. sér. 2, iii. (1903) 957.
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  - REPIANS, Diels, in Engl. Jahrb. xxix. (1900) 502.
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  - RADIATUS, Linn.; Franch. *l. c.*
  - RICCIARDIANUS, Ten.; Engl. Jahrb. xxix. (1900) 418.
- PHELLODENDRON JAPONICUM, Maxim.; Engl. Jahrb. xxix. (1900) 424.
- PHILADELPHUS INCANUS, Koehne, in Gartenfl. xlv. (1896) 562.
  - SCHRENKII, Rupr.; Komarov, in Act. Hort. Petrop. xxii. (1903) 429.
  - SERICANTHUS, Koehne, varr.; Koehne, in Gartenfl. xlv. (1896) 561.
- PHLOMIS MEDICINALIS, Diels, in Engl. Jahrb. xxix. (1900) 554.
  - SETIFERA, Bur. & Franch. in Journ. de Bot. v. (1891) 149.
  - STENOCALYX, Diels, in Engl. Jahrb. xxix. (1900) 555.
  - TATSIENENSIS, Bur. & Franch. in Journ. de Bot. v. (1891) 149.
- PHOTINIA DEFLEXA, Hemsl. in Ann. Bot. ix. (1895) 153.
  - WRIGHTIANA, Maxim. in Bull. Acad. Pétersb. xxxii. (1888) 486.
- PHTHEIROSPERMUM TENUISECTUM, Bur. & Franch. in Journ. de Bot. v. (1891) 129.
- PHYLLODESMIS, Van Tiegh. in Bull. Soc. Bot. Fr. xlii. (1895) 255.
  - CORIACEA, Van Tiegh. *l. c.* 256.
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- PHYSALIS FRANCHETI, Mast. in Gard. Chron. (1894) ii. 434, 441.
- PHYSOCARPUS ANOMALA, Batalin; Engl. Jahrb. xxix. (1900) 382.
- PHYTOLACCA POLYANDRA, Batalin, in Act. Hort. Petrop. xiii. 7. (1893) 99.
- PICEA NEOVEITCHII, Mast. in Gard. Chron. i. (1903) 116.
  - WILSONI, Mast. *l. c.* 133.
- PICRIS DIVARICATA, Vaniot, in Bull. Acad. Géog. Bot. xii. (1903) 28.
  - HIERACIOIDES, Linn., var., Thunb.; Engl. Jahrb. xxix. (1900) 630.

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  - konyangensis, H. Léveillé, *l. c.* 253.
  - Martini, H. Léveillé, *l. c.* 252.
  - repens, H. Léveillé, *l. c.*
- Pilea fasciata, Franch. Pl. Dav. in Nouv. Arch. Mus. Hist. Nat. Par. sér. 2, x. (1887–8) 81.
  - ✓ trinervia, Wight; Engl. Jahrb. xxix. (1900) 302.
- Pimpinella, Diels=Carum.
  - ✓ arguta, Diels, Engl. Jahrb. xxix. (1900) 496.
  - Dunnii, Boissieu, in Bull. Herb. Boiss. sér. 2, iii. (1903) 841.
  - Fargesii, Boissieu, *l. c.* ii. (1902) 808.
  - Fauriei, Boissieu, *l. c.* iii. (1903) 955.
  - ✓ filicina, Franch.; Engl. Jahrb. xxix. (1900) 494.
  - helosciadoidea, Boissieu, in Bull. Herb. Boiss. sér. 2, ii. (1902) 809.
  - ✓ Henryi, Diels, in Engl. Jahrb. xxix. (1900) 495.
  - nikoensis, Yabe, in Bot. Mag. Tokyo, xvii. (1903) 106.
  - ✓ rhomboidea, Diels, in Engl. Jahrb. xxix. (1900) 496.
  - ✓ Rosthornii, Diels, *l. c.* 495.
  - silaifolia, Boissieu, in Bull. Herb. Boiss. sér. 2, ii. (1902) 809.
  - Souliei, Boissieu, *l. c.* 810.
  - sutchuensis, Boissieu, *l. c.* 808.
  - ✓ Tanakæ, Franch. & Sav.; Engl. Jahrb. xxix. (1900) 494.
  - ✓ triternata, Diels; *l. c.* 496.
  - ✓ trichomanifolia, Franch.; *l. c.* 494.
- ✓ Pinguicula vulgaris, Linn.; Engl. Jahrb. xxix. (1900) 573.
- Pinus funebris, Komarov, in Act. Hort. Petrop. xx. (1901) 177.
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  - tomentosus, Franch. Pl. Delav. (1889) 150.
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- Pistacia weinmannifolia, J. Poisson, ex Franch. in Bull. Soc. Bot. Fr. xxxiii. (1886) 467.
- ✓ Pittosporum glabratum, Lindl. var., E. Pritz.; Engl. Jahrb. xxix. (1900) 378.
  - heterophyllum, Franch. in Bull. Soc. Bot. Fr. xxxiii. (1886) 415.

Pittosporum nilghirense, Wight & Arn.; Engl. Jahrb. xxix. (1900) 378.
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  - floribunda, Dunn, in Journ. Linn. Soc., Bot. xxxv. (1903) 485.
  - Forbesii, Chod. in Bull. Herb. Boiss. iv. (1896) 234.
  - globulifera, Dunn, in Journ. Linn. Soc., Bot. xxxv. (1903) 486.
  - Latouchei, Franch. & Finet, in Bull. Soc. Bot. Fr. xlvi. (1899) 206.
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  - saxicola, Dunn, in Journ. Linn. Soc., Bot. xxxv. (1903) 486.
  - sibirica, DC.; Franch. in Bull. Soc. Bot. Fr. xxxiii. (1886) 417.
- Polygonatum Bodinieri, H. Léveillé, in Bull. Soc. Géog. Bot. xii. (1903) 262.
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  - panduriforme, H. Léveillé & Vaniot, in Bull. Acad. Géog. Bot. xi. (1902) 343.
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- Portulaca villosa, var.; Matsum. in Bot. Mag. Tokyo, xii. (1898) no. 136, 53.
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  - **moupinensis**, Franch. Nouv. Arch. Mus. Hist. Nat. Par. sér. 2, viii. (1885) 222.
  - **multifida**, Linn., var.; Franch. Pl. Delav. (1890) 215.
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- **Poupartia Fordii**, Hemsl. in Hook. Ic. Pl. xxvi. (1898) t. 2557.
- **Pourthiæa arguta**, Decne., var., Hook. f. & Thoms.; Engl. Jahrb. xxix. (1900) 388.
  - **parvifolia**, E. Pritz, *l. c.*
  - **variabilis**, Hemsl. ex Palibin, in Act. Hort. Petrop. xvii. i. (1899) 76.
- **Prenanthes Brunoniana**, Wall.; Engl. Jahrb. xxix. (1900) 633.
  - **glandulosa**, Dunn, in Journ. Linn. Soc., Bot. xxxv. (1903) 514.
  - **Henryi**, Dunn, *l. c.*
  - **macrophylla**, Franch. in Journ. de Bot. iv. (1890) 306.
  - **vitifolia**, Diels, in Engl. Jahrb. xxix. (1900) 634.
- **Primula argutidens**, Franch. in Journ. de Bot. ix. (1895) 451.
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  - **breviscapa**, Franch. in Bull. Mus. Hist. Nat. Par. (1895) 65.
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  - **Cockburniana**, Hemsl. in Journ. Linn. Soc., Bot. xxix. (1893) 313.
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  - **diantha**, Franch. in Journ. de Bot. v. (1891) 97.
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BODINIERI, Franch. *l. c.* xii. (1898) 257.
BONVALOTI, Franch. *l. c.* v. (1891) 94.
BREVISTYLUM, Franch. *l. c.* xii. (1898) 261.
CALOPHYTON, Franch. in Bull. Soc. Bot. Fr. xxxiii. (1886) 230.
CHARTOPHYLLUM, Franch. in Journ. de Bot. ix. (1895) 398.
CHIONOPHYLLUM, Diels, in Engl. Jahrb. xxix. (1900) 512.
CŒLONEURUM, Diels, *l. c.* 513.
CORIACEUM, Franch. in Journ. de Bot. xii. (1898) 258.
COSTULATUM, Franch. *l. c.* ix. (1895) 399.
CRINIGERUM, Franch. *l. c.* xii. (1898) 260.
CYANOCARPUM, Franch. *l. c.* ix. (1895) 389.
DAVIDI, Franch. in Bull. Soc. Bot. Fr. xxxiii. (1886) 230.
DENDROCHARIS, Franch. *l. c.* 233.
DETERSILE, Franch. in Journ. de Bot. xii. (1898) 260.
DISCOLOR, Franch. *l. c.* ix. (1895) 391.
FARGESII, Franch. *l. c.* 390.
FLAVIDUM, Franch. *l. c.* 395.
FLOCCIGERUM, Franch. *l. c.* xii. (1898) 259.
FLORIBUNDUM, Franch. in Bull. Soc. Bot. Fr. xxxiii. (1886) 233.
FOKIENSE, Franch. & Finet, *l. c.* xlvi. (1900) 210.
FORDII, Hemsl. in Kew Bull. (1894) 5.
FORMOSANUM, Hemsl. *l. c.* (1895) 183.
GLANDULIFERUM, Franch. in Bull. Soc. Bot. Fr. xxxiii. (1886) 231.
GRACILIPES, Franch. in Journ. de Bot. ix. (1895) 391.
HANCOCKII, Hemsl. in Hook. Ic. Pl. xxiv. (1895) t. 2381, & Kew Bull. (1895) 107.
INTRICATUM, Franch. in Journ. de Bot. ix. (1895) 395.
KIALENSE, Franch. *l. c.* 392.
LATOUCHEÆ, Franch. & Finet, in Bull. Soc. Bot. Fr. xlvi. (1900) 210.
LUCIDUM, Franch. in Journ. de Bot. ix. (1895) 390.
LUKIANGENSE, Franch. *l. c.* xii. (1898) 257.
LUTESCENS, Franch. in Bull. Soc. Bot. Fr. xxxiii. (1886) 235.
MACULIFERUM, Franch. in Journ. de Bot. ix. (1895) 393.
MANDARINORUM, Diels, in Engl. Jahrb. xxix. (1900) 510.
MEKONGENSE, Franch. in Journ. de Bot. xii. (1898) 263.
MOUPINENSE, Franch. in Bull. Soc. Bot. Fr. xxxiii. (1886) 233.
OREODOXA, Franch. *l. c.* 230.
OXYPHYLLUM, Franch. in Journ. de Bot. xii. (1898) 264.
PACHYTRICHUM, Franch. in Bull. Soc. Bot. Fr. xxxiii. (1886) 234.

RHODODENDRON PLATYPODUM, Diels, in Engl. Jahrb. xxix. (1900) 511.

POLIFOLIUM, Franch. in Journ. de Bot. ix. (1895) 397.

POLYLEPIS, Franch. in Bull. Soc. Bot. Fr. xxxiii. (1886) 232.

POTANINI, Batalin, in Act. Hort. Petrop. xi. (1892) 489.

PRATTII, Franch. in Journ. de Bot. ix. (1895) 389.

PRITZELIANUM, Diels, in Engl. Jahrb. xxix (1900) 510.

RAMOSISSIMUM, Bur. & Franch. in Journ. de Bot. xii. (1898) 264.

ROSTHORNII, Diels, in Engl. Jahrb. xxix. (1900) 509.

ROTUNDIFOLIUM, David; Franch. in Nouv. Arch. Mus. Hist. Nat. Par. sér. 2, x. (1887–88) 47.

RUFESCENS, Franch. in Journ. de Bot. ix. (1895) 397.

RUFUM, Batalin, in Act. Hort. Petrop. xi. 16. (1891) 490.

SALUENENSE, Franch. in Journ. de Bot. xii. (1898) 262.

SANGUINEUM, Franch. *l. c.* 259.

SELENSE, Franch. *l. c.* 257.

SIDEROPHYLLUM, Franch. *l. c.* 262.

SOULIEI, Franch. *l. c.* ix. (1895) 393.

SPICIFERUM, Franch. *l. c.* 400.

SPINULIFERUM, Franch. *l. c.* 399.

STRIGILLOSUM, Franch. in Bull. Soc. Bot. Fr. xxxiii. (1886) 232.

SUTCHUENSE, Franch. in Journ. de Bot. ix. (1895) 392.

TATSIENSE, Franch. *l. c.* 394.

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TRICHOSTOMUM, Franch. *l. c.* 396.

VERNICOSUM, Franch. *l. c.* xii. (1898) 258.

VIALI, Franch. *l. c.* ix. (1895) 398.

YANTHINUM, Bur. & Franch. *l. c.* v. (1891) 94.

RHUS DELAVAYI, Franch. in Bull. Soc. Bot. Fr. xxxiii. (1886) 466.

HENRYI, Diels, in Engl. Jahrb. xxix. (1900) 432.

POTANINI, Maxim. in Act. Hort. Petrop. xi. (1890) 110.

SINICA, Diels, in Engl. Jahrb. xxix. (1900) 432.

TOXICODENDRON, Linn., var.; Diels, *l. c.* 433.

RHYNCHOSIA DIELSII, Harms, in Engl. Jahrb. xxix. (1900) 418.

HIMALENSIS, Benth.; Franch. Pl. Delav. (1890) 185.

LUTEA, Dunn, in Journ. Linn. Soc., Bot. xxxv. (1903) 491.

YUNNANENSIS, Franch. Pl. Delav. (1890) 185.

RHYNCHOSPERMUM VERTICILLATUM, Reinw.; Engl. Jahrb. xxix. (1900) 60.

RIBES BUREJENSE, F. Schmidt; Komarov, in Act. Hort. Petrop. xxii. (1903) 435.

DAVIDI, Franch. Pl. Dav. in Nouv. Arch. Mus. Hist. Nat. Par. sér. 2, viii. (1885) 237.

DIACANTHA, Pall.; Komarov, in Act. Hort. Petrop. xxii. (1903) 445.

FARGESII, Franch. in Bull. Soc. Linn. Par. n. s. (1898) no. 10, 86.

Ribes glaciale, Wall.; Franch. in Nouv. Arch. Mus. Hist. Nat. Par. sér. 2, viii. (1885) 239.

  Henryi, Franch. in Bull. Soc. Linn. Par. n. s. (1898) no. 10, 87.

  longeracemosum, Franch. Pl. Dav. in Nouv. Arch. Mus. Hist. Nat. Par. sér. 2, viii. (1885) 238.

  manshuricum, Maxim.; Komarov, in Act. Hort. Petrop. xxii. (1903) 439.

  Maximowiczii, Batalin, in *l. c.* xi. (1891) 16. 487.

  moupinense, Franch. Pl. Dav. in Nouv. Arch. Mus. Hist. Nat. Par. sér. 2, viii. (1885) 238.

  pachysandroides, Hook. f.; Ic. Pl. xviii. (1888) t. 1767.

  procumbens, Pall.; Komarov, in Act. Hort. Petrop. xxii. (1903) 436.

  Rosthornii, Diels, in Engl. Jahrb. xxix. (1900) 378.

  tripartitum, Batalin, in Act. Hort. Petrop. xi. 16. (1891) 488.

Rodgersia æsculifolia, Batalin, in *l. c.* xiii. 7. (1893) 96.

  Henrici, Franch. in Rev. Hort. (1897) 176.

  pinnata, Franch. *l. c.*

  tabularis, Hemsl.; Komarov, in Act. Hort. Petrop. xxii. (1903) 410.

Rœttlera aurea, Franch. in Bull. Mus. Hist. Nat. Par. v. (1899) 250.

  Fargesii, Franch. *l. c.* 251.

  mekongensis, Franch. *l. c.* 252.

  thibetica, Franch. *l. c.* 251.

  uniflora, Franch. *l. c.* 251.

  yunnanensis, Franch. *l. c.* 250.

Rosa Beggeriana, Schrenk; Engl. Jahrb. xxix. (1900) 405.

  Biondii, Crép. in Bull. Soc. Bot. Ital. (1897) no. 4, 232.

  Davidii, Crép., var. Focke; Engl. Jahrb. xxix. (1900) 405.

  Giraldii, Crép. in Bull. Soc. Bot. Ital. (1897) no. 4, 233.

  koreana, Komarov, in Act. Hort. Petrop. xviii. 6 (1901) 434.

  moschata, Mill., var. Crép.; Franch. Pl. Delav. (1890) 218.

  Prattii, Hemsl. in Journ. Linn. Soc., Bot. xxix. (1893) 307.

  Souliana, Crép. in Compt. Rend. Bull. Soc. Bot. Belg. xxxv. ii. (1896) 21.

  Webbiana, Wall. var.; Crép. in Bull. Soc. Bot. Belge, xiii. (1874) 276.

Rubia Schumanniana, E. Pritz.; Engl. Jahrb. xxix. (1900) 583.

Rubus adenanthus, Finet & Franch. in Bull. Soc. Bot. Fr. xlvi. (1900) 208.

  allophyllus, Hemsl. in Journ. Linn. Soc., Bot. xxix. (1893) 305.

  ampelinus, Focke, in Engl. Jahrb. xxix. (1900) 396.

  amphidasys, Focke, *l. c.*

  bambusarum, Focke, in Hook. Ic. Pl. xx. (1891) sub t. 1952.

  biflorus, Buch. ex Focke; Engl. Jahrb. xxix. (1900) 397.

Rubus Bodinieri, H. Léveillé & Vaniot, in Bull. Acad. Géog. Bot. xi. (1902) 92.

Buergeri, Miq. ex Focke; Engl. Jahrb. xxix. (1900) 394.

Chaffanjoni, H. Léveillé & Vaniot, in Bull. Acad. Géog. Bot. xi. (1902) 98.

chiliadenus, Focke, in Hook. Ic. Pl. xx. (1891) sub t. 1952.

chinensis, Franch. Pl. Delav. (1890) 207.

chroosepalus, Focke, in Hook. Ic. Pl. xx. (1891) t. 1952.

cochinchinensis, Tratt.; Franch. in Nouv. Arch. Mus. Hist. Nat. Par. sér. 2, viii. (1885) 220.

Cockburnianus, Hemsl. in Journ. Linn. Soc., Bot. xxix. (1893) 305.

corchorifolius, Linn. f. var., Focke; Engl. Jahrb. xxix. (1900) 391.

Delavayi, Franch. Pl. Delav. (1890) 205.

ellipticus, Sm.; Franch. Pl. Delav. 206.

eugenius, Focke, in Engl. Jahrb. xxix. (1900) 393.

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Fargesii, Franch. in Journ. de Bot. viii. (1894) 294.

flagelliflorus, Focke, in Engl. Jahrb. xxix. (1900) 393.

flosculosus, Focke, in Hook. Ic. Pl. xx. (1891) sub t. 1952.

Fockeanus, Kurz; Engl. Jahrb. xxix. (1900) 397.

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fragarioides, Bertol., varr.; Franch. *l. c.* 202.

Gentilianus, H. Léveillé & Vaniot, in Bull. Acad. Géog. Bot. xi. (1902) 99.

Giraldianus, Focke, in Engl. Jahrb. xxix. (1900) 401.

hupehensis, Oliver, in Hook. Ic. Pl. xix. (1889) t. 1816.

idæus, Linn. var., Focke; Palibin in Act. Hort. Petrop. xvii. I. (1899) 78.

innoxius, Focke, in Engl. Jahrb. xxix. (1900) 395.

irenæus, Focke, *l. c.* 394.

Jamini, H. Léveillé & Vaniot, in Bull. Acad. Géog. Bot. x. (1902) 102.

kerriifolius, H. Léveillé & Vaniot, *l. c.* 100.

lasiocarpus, Sm.; Franch. Pl. Delav. (1890) 207.

lasiostylus, Focke, in Hook. Ic. Pl. xx. (1891) t. 1951.

loropetalus, Franch. Pl. Delav. (1890) 203.

lutescens, Franch. *l. c.* 206.

macilentus, Camb.; Franch. in Nouv. Arch. Mus. Hist. Nat. Par. sér. 2, viii. (1885) 221.

malifolius, Focke, in Hook. Ic. Pl. xx. (1891) t. 1947.

mesogæus, Focke, in Engl. Jahrb. xxix. (1900) 399.

  Var. oxycomus, Focke, *l. c.*

modicus, Focke, *l. c.*

RUBUS MONGUILLONI, H. Léveillé & Vaniot, in Bull. Acad. Géog. Bot. xi. (1902) 101.
MULTIBRACTEATUS, H. Léveillé & Vaniot, *l. c.* 99.
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PACATUS, Focke, in Engl. Jahrb. xxix. (1900) 395.
PELTATUS, Maxim.; Focke, *l. c.* 391.
PILEATUS, Focke, in Hook. Ic. Pl. xx. (1891) sub t. 1952.
PINNATISEPALUS, Hemsl. in Journ. Linn. Soc., Bot. xxix. (1893) 305.
POLYTRICHUS, Franch. Pl. Delav. (1890) 204.
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SEPALANTHUS, Focke, in Engl. Jahrb. xxix. (1900) 391.
SETCHUENENSIS, Franch. in Journ. de Bot. v. (1891) 46.
SIMPLEX, Focke, in Hook. Ic. Pl. xx. (1891) t. 1948.
SORBIFOLIUS, Maxim.; Focke, in Engl. Jahrb. xxix. (1900) 391.
SOZOSTYLUS, Focke, in Hook. Ic. Pl. xx. (1891) sub t. 1952.
SPINIPES, Hemsl. in Journ. Linn. Soc., Bot. xxix. (1893) 306.
TELEDAPOS, Focke, in Engl. Jahrb. xxix. (1900) 398.
THIBETANUS, Franch. Pl. Dav. in Nouv. Arch. Mus. Hist. Nat. Par. sér. 2, viii. (1885) 221.
VIBURNIFOLIUS, Franch. in Bull. Mus. Hist. Nat. Par. i. (1895) 63.
XANTHOCARPUS, Bur. & Franch. in Journ. de Bot. v. (1891) 46.
XANTHONEURUS, Focke, in Engl. Jahrb. xxix. (1900) 392.
RUMEX DOMESTICUS, Hartm.; Komarov, in Act. Hort. Petrop. xxii. (1903) 116.
STENOPHYLLUS, Ledeb.; Komarov, *l. c.* 115.

SABIA LEPTANDRA, Hook. f. & Thoms.; Engl. Jahrb. xxix. (1900) 451.
PURPUREA, Hook. f. & Thoms.; Engl. *l. c.*
SCHUMANNIANA, Diels.; *l. c.*
YUNNANENSIS, Franch. in Bull. Soc. Bot. Fr. xxxiii. (1886) 465.
SACCOLABIUM FARGESII, Kränzl.; Journ. de Bot. xvii. (1903) 423.
SAGERETIA FERRUGINEA, Oliver, in Hook. Ic. Pl. xviii. (1887) t. 1710.
OPPOSITIFOLIA, Brongn., var.; Franch. Pl. Delav. (1890) 134.
PAUCICOSTATA, Maxim. in Act. Hort. Petrop. xi. I. (1890) 101.
SALICORNIA HERBACEA, Linn.; Act. Hort. Petrop. xviii. (1899) 179.
SALIX BOCKII, Seemen, in Engl. Jahrb. xxix. (1900) 278.
CINEREA, Linn.; Komarov, in Act. Hort. Petrop. xxii. (1903) 22.
DENSIFOLIATA, Seemen, in Engl. Jahrb. xxi. (1896) Beibl. 53. 57.
DICTYONEURA, Seemen, *l. c.* xxix. (1900) 275.
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MAXIMOVICZII, Komarov, in Act. Hort. Petrop. xxii. (1903) 25.

Salix multinervis, Komarov, in Act. Hort. Petrop. xxii. (1903) 25.
  myrtilloides, Komarov, *l. c.* 26.
  Rosthornii, Seemen, in Engl. Jahrb. xxix. (1900) 276.
  vagans, Komarov, in Act. Hort. Petrop. xxii. (1903) 31.
  viminalis, Linn.; Komarov, *l. c.* 32.
Salvia brevilabra, Franch. in Bull. Soc. Phil. Par. sér. 8, iii. 3. (1891) 149.
  Mandarinorum, Diels, in Engl. Jahrb. xxix. (1900) 557.
  Prattii, Hemsl. in Journ. Linn. Soc., Bot. xxix. (1903) 316.
  pygmæa, Matsum. in Bot. Mag. Tokyo, xi. (1897) 70.
  tatsienensis, Franch. in Bull. Soc. Phil. Par. sér. 8, iii. (1891) 150.
  tricuspis, Franch. *l. c.* 150.
  yunnanensis, C. H. Wright, in Kew Bull. (1896) 164.
Sanicula cærulescens, Franch. in Bull. Soc. Phil. Par. sér. 8, vi. (1894) 110.
  hacquetioides, Franch. *l. c.*
  rugulosa, Diels, in Engl. Jahrb. xxix. (1900) 491.
  yunnanensis, Franch. in Bull. Soc. Phil. Par. sér. 8, vi. (1894) 108.
Saruma Henryi, Oliver, in Hook. Ic. Pl. xix. (1889) t. 1895.
Satyrium setchuenicum, Kränzl. in Engl. Jahrb. xxix. (1900) 266.
Saurauja napaulensis, DC.; Franch. in Bull. Soc. Bot. Fr. xxxiii. (1886) 438.
Saussurea alatipes, Hemsl. in Journ. Linn. Soc., Bot. xxix. (1893) 308.
  auriculata, Hemsl. *l. c.* non Franch. = S. otophylla, Hemsl. *infrà.*
  auriculata, Franch. Pl. Dav. in Nouv. Arch. Mus. Hist. Nat. Par. sér. 2, x. (1887–8) 40.
  Baroniana, Diels, in Engl. Jahrb. xxix. (1900) 625.
  Bullockii, Dunn, in Journ. Linn. Soc., Bot. xxxv. (1903) 509.
  carduiformis, Franch. in Journ. de Bot. viii. (1894) 343.
  caudata, Franch. in Bull. Soc. Phil. Par. sér. 8, iii. 3. (1891) 147.
  chetchotze, Franch. in Journ. de Bot. ii. (1888) 359.
  ciliaris, Franch. *l. c.* 337.
  cirsioides, Hemsl. in Journ. Linn. Soc., Bot. xxix. (1893) 309.
  compta, Franch. in Journ. de Bot. x. (1896) 423.
  conyzoides, Hemsl. in Journ. Linn. Soc., Bot. xxix. (1893) 309.
  cordifolia, Hemsl. *l. c.* 310.
  crispa, Vaniot, in Bull. Acad. Géog. Bot. xii. (1903) 21.
  decurrens, Hemsl. in Journ. Linn. Soc., Bot. xxix. (1893) 310.
  Delavayi, Franch. in Journ. de Bot. viii. (1894) 340.
  dimorphæa, Franch. *l. c.*
  dolichopoda, Diels, in Engl. Jahrb. xxix. (1900) 623.
  Dutaillyana, Franch. in Journ. de Bot. x. (1896) 421.
  dzeurensis, Franch. *l. c.* viii. (1894) 339.

Saussurea edulis, Franch. in Journ. de Bot. ii. (1888) 337.
eriocephala, Franch. *l. c.* viii. (1894) 339.
Fargesii, Franch. *l. c.* 344.
flexuosa, Franch. *l. c.* 341.
gossypiphora, D. Don; Franch. in Journ. de Bot. ii. (1888) 359.
graminea, Dunn, in Journ. Linn. Soc., Bot. xxxv. (1903) 509.
grosseserrata, Franch. in Journ. de Bot. ii. (1888) 354.
Grumgrjimailo, Winkl.; Bretschn. Hist. Bot. Disc. China, ii. 1039.
Henryi, Hemsl. in Journ. Linn. Soc., Bot. xxix. (1893) 311.
Kunthiana, C. B. Clarke; Franch. in Journ. de Bot. ii. (1888) 340.
lampsanifolia, Franch. in Journ. de Bot. ii. (1888) 357.
lanuginosa, Vaniot, in Bull. Acad. Géog. Bot. xii. (1903) 20.
Leontodon, Dunn, in Journ. Linn. Soc., Bot. xxxv. (1903) 509.
likiangensis, Franch. in Journ. de Bot. ii. (1888) 356.
lingulata, Franch. *l. c.* x. (1896) 423.
longifolia, Franch. *l. c.* ii. 354.
macrota, Franch. *l. c.* viii. (1894) 343.
manshurica, Komarov, in Act. Hort. Petrop. xviii. 2. (1900) 424.
✓ microcephala, Diels, in Engl. Jahrb. xxix. (1900) 624.
minuta, Winkl. in Act. Hort. Petrop. xiii. (1894) 13. 243.
mollis, Franch. in Journ. de Bot. ii. (1888) 353.
nobilis, Franch. *l. c.* 355.
✓ obvallata, Wall. var.; Diels, in Engl. Jahrb. xxix. (1900) 623.
oligantha, Franch. in Journ. de Bot. x. (1896) 421.
otophylla, Hemsl. n. nov. *Syn.* auriculata, *Hemsl. non Franch.*
pachyneura, Franch. in Journ. de Bot. viii. (1894) 354.
peduncularis, Franch. *l. c.* ii. (1888) 357.
populifolia, Hemsl. in Journ. Linn. Soc., Bot. xxix. (1893) 311.
radiata, Franch. in Journ. de Bot. ii. (1888) 356.
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Rosthornii, Diels, in Engl. Jahrb. xxix. (1900) 625.
saligna, Franch. in Journ. de Bot. viii. (1894) 345.
scabrida, Franch. in Bull. Soc. Phil. Par. sér. 8, iii. 3. (1891) 146.
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Souliei, Franch. in Bull. Soc. Phil. Par. sér. 8, iii. 3. (1891) 147.
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stricta, Franch. *l. c.* viii. (1894) 342.
Sughoo, C. B. Clarke; Franch. *l. c.* ii. (1888) 339.
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thibetica, Franch. in Journ. de Bot. viii. (1894) 338.
umbrosa, Komarov, Act. Hort. Petrop. xviii. 2. (1900) 423.
vaginata, Dunn, in Journ. Linn. Soc., Bot. xxxv. (1903) 510.

Saussurea vestita, Franch. in Journ. de Bot. ii. (1888) 358.
villosa, Franch. *l. c.* 353.
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Woodiana, Hemsl. in Journ. Linn. Soc., Bot. xxix. (1893) 312.
yunnanensis, Franch. in Journ. de Bot. ii. (1888) 340.
Saxifraga aplophylloides, Franch. Pl. Delav. (1890) 238.
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Candelabrum, Franch. *l. c.* 232.
cardiophylla, Franch. Pl. Dav. in Nouv. Arch. Mus. Hist. Nat. Par. sér. 2, viii. (1885) 230.
chionophila, Franch. in Journ. de Bot. x. (1896) 265.
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crinalis, Franch. *l. c.* 233.
Davidii, Franch. Pl. Dav. in Nouv. Arch. Mus. Hist. Nat. Par. sér. 2, viii. (1885) 229.
drabæformis, Franch. Pl. Delav. (1890) 235.
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glaucophylla, Franch. Pl. Delav. (1890) 239.
hispidula, D. Don; Engl. Jahrb. xxix. (1900) 366.
hypericoides, Franch. in Journ. de Bot. x. (1896) 261.
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likiangensis, Franch. in Journ. de Bot. x. (1896) 266.
longistyla, Franch. in Bull. Soc. Phil. Par. sér. 8, iii. 3. (1891) 144.
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manshuriensis, Komarov, in Act. Hort. Petrop. xxii. (1903) 415.
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- Saxifraga stellariæfolia, Franch. Pl. Dav. in Nouv. Arch. Mus. Hist. Nat. Par. sér. 2, viii. (1885) 231.
  - trinervia, Franch. *l. c.* 232.
  - tsangchanensis, Franch. Pl. Delav. (1890) 233.
- Scabiosa Bretschneideri, Batalin, in Act. Hort. Petrop. xiv. 8. (1895) 184.
- Sceptrocnide macrostachya, Maxim.; Engl. Jahrb. xxix. (1900) 302.
- Schefflera Fargesii, Harms, in Engl. Jahrb. xxix. (1900) 486.
  - megalobotrya, Harms, *l. c.*
- Schima argentea, E. Pritz. in Engl. Jahrb. xxix. (1900) 473.
- Schistocaryum, Franch. in Bull. Soc. Linn. Par. ii. (1891) 930.
  - ciliare, Bur. & Franch. in Journ. de Bot. v. (1891) 104.
  - myosotideum, Franch. in Bull. Soc. Linn. Par. ii. (1891) 930.
  - ovalifolium, Bur. & Franch. in Journ. de Bot. v. (1891) 104.
- Schizandra axillaris, Hook. f. & Thoms.; Engl. Jahrb. xxix. (1900) 322.
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  - propinqua, Hook. f. & Thoms. var., Oliver, in Hook. Ic. Pl. xviii. (1889) t. 1715.
- Schizopepon dioicus, Cogn. in Hook. Ic. Pl. xxiii. (1892) t. 2224.
- Schizophragma hydrangeoides, Sieb. & Zucc.; Diels, in Engl. Jahrb. xxix. (1900) 376.
  - integrifolia, Oliver, in Hook. Ic. Pl. xx. (1890) t. 1934.
- Scolopia chinensis, Briquet, in Ann. Conserv. Jard. Bot. Genève, ii. (1898) 42.
- Scorzonera mongolica, var.; Palibin, in Act. Hort. Petrop. xiv. (1895) 128.
- Scrophularia alata, A. Gray; Engl. Jahrb. xxix. (1900) 565.
  - Delavayi, Franch. in Bull. Soc. Bot. Fr. xlvii. (1900) 15.
  - diplodonta, Franch. *l. c.* 14.
  - Fargesii, Franch. *l. c.* 12.
  - kansuensis, Batalin, in Act. Hort. Petrop. xiii. (1894) 381.
  - Mandarinorum, Franch. in Bull. Soc. Bot. Fr. xlvii. (1900) 13.
  - microdonta, Franch. *l. c.* 11.
  - Souliei, Franch. *l. c.* 15.
  - spicata, Franch. *l. c.* 14.
  - yunnanensis, Franch. *l. c.* 12.
- Scutellaria amœna, C. H. Wright, in Kew Bull. (1896) 164.
  - formosana, N. E. Br. in Gard. Chron. ii. (1894) 212.
- Sedum bracteatum, Diels, in Engl. Jahrb. xxix. (1900) 362.
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  - discolor, Franch. in Journ. de Bot. x. (1896) 285.
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- SERRATULA MARTINI, Vaniot, in Bull. Acad. Géog. Bot. xii. (1903) 21.
- SESELI DELAVAYI, Franch. in Bull. Soc. Phil. Par. sér. 8, vi. (1894) 130.
  - GIRALDII, Diels, in Engl. Jahrb. xxix. (1900) 497.
  - PROVOSTII, Boissieu, in Bull. Herb. Boiss. sér. 2, iii. (1903) 842.
  - YUNNANENSE, Franch. in Bull. Soc. Phil. Par. sér. 8, vi. (1894) 129.
- SHORTIA ROTUNDIFOLIA, Makino, in Bot. Mag. Tokyo, ix. (1895) 327, & x. (1896) 221.
  - SINENSIS, Hemsl. in Hook. Ic. Pl. xxvii. (1900) t. 2624.
  - THIBETICA, Franch. Pl. Dav. in Nouv. Arch. Mus. ser. 2, x. (1887–8) 54.
- SHUTERIA LONGIPES, Franch. Pl. Delav. (1896) 179.
  - SINENSIS, Hemsl. in Hook. Ic. Pl. xxvii. (1900) t. 2626.
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  - ASCLEPIADEA, Franch. in Bull. Soc. Bot. Fr. xxxiii. (1886) 422.
  - CÆSPITOSA, Bur. & Franch. in Journ. de Bot. v. (1891) 22.
  - CAPITATA, Komarov, in Act. Hort. Petrop. xviii. (1901) 440.
  - CARDIOPETALA, Franch. in Bull. Soc. Bot. Fr. xxxiii. (1886) 419.
  - CHINENSIS, Hort. in Bosse, Handl. Blumengartnerei, ed. 3, vii. (1861) 445.
  - DELAVAYI, Franch. in Bull. Soc. Bot. Fr. xxxiii. (1886) 424.
  - FOLIOSA, Maxim.; Franch. Journ. de Bot. iv. (1890) 303.
  - GRANDIFOLIA, Franch. in Bull. Soc. Bot. Fr. xxxiii. (1886) 427.
  - KOREANA, Komarov, in Act. Hort. Petrop. xviii. (1901) 440.
  - LANGKONGENSIS, Franch. in Bull. Soc. Bot. Fr. xxxiii. (1886) 421.
  - LUTEA, Franch. *l. c.* 420.
  - MACROSTYLA, Maxim.; Komarov, in Act. Hort. Petrop. xxii. (1903) 193.
  - MELANANTHA, Franch. in Bull. Soc. Bot. Fr. xxxiii. (1886) 423.
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  - PLATYPHYLLA, Franch. in Bull. Soc. Bot. Fr. xxxiii. (1886) 419.
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  - REPENS, Patrin; Franch. in Journ. de Bot. iv. (1890) 302.
  - RUBICUNDA, Franch. in Bull. Soc. Bot. Fr. xxxiii. (1886) 417.
  - SCOPULORUM, Franch. *l. c.* 423.
  - SINENSIS, Williams, in Journ. Linn. Soc., Bot. xxxii. (1896) 179.
  - SZECHUENSIS, Williams, *l. c.* xxxiv. (1899) 428.
  - TANAKÆ, Maxim. in Bull. Acad. Pétersb. xxxii. (1888) 481.

- Silene tenuis, Willd.; Williams, in Journ. Linn. Soc., Bot. xxxiv. (1899) 429.
  - trachyphylla, Franch. in Bull. Soc. Bot. Fr. xxxiii. (1886) 418.
  - viscidula, Franch. *l. c.* 421.
  - yunnanensis, Franch. *l. c.* 425.
- Sisymbrium Maximowiczii, Palibin, in Act. Hort. Petrop. xvii. (1899) 28.
  - Thalianum, J. Gay; Franch. in Bull. Soc. Bot. Fr. xxxiii. (1886) 403.
- Sium Matsumuræ, Boissieu, in Bull. Herb. Boiss. sér. 2, iii. (1903) 954.
  - Ninsi, Linn.; Boissieu, *l. c.* 958.
  - nipponicum, Maxim.; Boissieu, *l. c.*
- Skimmia Fortunei, Mast. in Gard. Chron. (1889) i. 520.
  - japonica, Thunb.; Engl. Jahrb. xxix. (1900) 424.
  - Laureola, Franch. in Nouv. Arch. Mus. sér. 2, x. (1888) 171.
- Sloanea hongkongensis, Hemsl. in Hook. Ic. Pl. xxvii. (1900) t. 2628.
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  - Fargesii, Diels, in Engl. Jahrb. xxix. (1900) 246.
  - japonica, A. Gray; Diels, *l. c.*
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  - polycolea, Warb. *l. c.* xxix. (1900) 257.
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- Smithia yunnanensis, Franch. Pl. Delav. (1890) 170.
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- Sophora glauca, Leschen.; Franch. Pl. Delav. (1890) 188.
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- Souliea, Franch. in Journ. de Bot. xii. (1898) 69.
  - vaginata, Franch. *l. c.* 70.
- Spatholobus pulcher, Dunn, in Journ. Linn. Soc., Bot. xxxv. (1903) 489.
  - suberectus, Dunn, *l. c.*
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- Streptocarpus chinensis, Franch. in Bull. Mus. Hist. Nat. Par. v. (1899) 252.
- Streptopus ajanensis, Til., var.; Komarov, in Act. Hort. Petrop. xx. (1901) 476.
  - parviflorus, Franch. in Nouv. Arch. Mus. Hist. Nat. Par. sér. 2, x. (1887-8) 189.
- Styrax caloneurum, Perk. in Engl. Jahrb. xxxi. (1902) 484.
  - dasyanthum, Perk. *l. c.* 485.
  - formosanum, Matsum. in Bot. Mag. Tokyo, xv. 75.
  - Hemsleyanum, Diels, in Engl. Jahrb. xxix. (1900) 530.
  - hypoglaucum, Perk. *l. c.* xxxi. (1902) 486.
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  - prunifolium, Perk. *l. c.* 486.
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